

# *Strategies for Improving Business Administration Level of Enterprises in the Context of Digital Economy*

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**Keywords:** Digital economy, business management, management proficiency, digital transformation, data analytics, automated management, employee training, decision support systems, competitive strategy, sustainability

**Abstract:** With the rapid development of digital economy, enterprises are facing unprecedented opportunities and challenges. The wide application of digital technology is reshaping the traditional mode of industrial and commercial management, and it has become imperative to improve the management level of enterprises. This paper discusses the current situation of enterprise business management and the challenges it faces in the context of the digital economy, and proposes a series of strategies to improve the management level, including the establishment of a digital management system, the strengthening of employees' digital skills training, and the optimization of the decision support system. By analyzing successful cases, this paper summarizes effective practical experience and looks forward to the future direction and trend of enterprise development in the digital economy. The findings suggest that enterprises should combine their own characteristics when implementing these strategies in order to achieve sustainable development and competitive advantage.

## **1. Introduction**

Against the backdrop of the rapid digitization of the global economy, the digital economy has become an important force driving the economic growth and social development of all countries. With the continuous development and application of emerging technologies such as big data, cloud computing and artificial intelligence, the operation mode and management concept of enterprises are undergoing profound changes[1]. The digital economy not only provides enterprises with rich data resources and technical means, but also puts forward higher requirements for their business management level[2]. In this new economic environment, the traditional management mode can no longer meet the needs of rapid development of enterprises, and there is an urgent need to explore more efficient, flexible and intelligent management strategies.

The improvement of enterprise business management is not only related to its own survival and development, but also has a far-reaching impact on the competitive pattern of the industry and the sustainable development of the market[3]. Therefore, how to effectively improve the management level of enterprises in the digital economy environment has become an important topic of common concern in both academic and practical circles[4]. This paper will focus on the impact of the digital economy on enterprise management, as well as feasible management improvement strategies in this context, aiming to provide theoretical support and practical guidance for the transformation and

development of enterprises[5].

## 2. Impact of the digital economy on corporate business management

The rise of the digital economy has greatly promoted the change of enterprise management mode[6]. First, the widespread application of digital technology enables enterprises to access and analyze large amounts of data in real time, thus realizing refined management[7]. While traditional management often relies on experience and intuition, data-driven decision-making has become the norm in the digital economy[8]. Through in-depth analysis of multi-dimensional data such as market trends, customer needs and operational efficiency, companies are able to formulate strategies and improve management with greater precision[9]. In addition, the transparency of data enables organizations to better monitor business processes and performance, and identify and solve problems in a timely manner[10].

The digital economy promotes efficient collaboration and communication within enterprises. Using digital tools and platforms, different departments within an enterprise can realize seamless connection and information sharing, breaking the phenomenon of information silos in traditional management. This collaboration not only improves work efficiency, but also enhances team cohesion and creativity. At the same time, the application of digital technology also makes telecommuting and flexible working mode possible, and enterprises are able to attract and manage talents globally, which improves the efficiency of human resources allocation. Simple Linear Regression Equation:

$$y = \beta_0 + \beta_1 x + \epsilon \quad (1)$$

The digital economy has changed the way businesses interact with their customers. In the digital environment, consumers' needs are increasingly diverse and personalized, and companies need to respond quickly to market changes. Through digital marketing, social media and online platforms, enterprises are able to interact more directly with customers and obtain real-time feedback to optimize their products and services. In addition, customer analytics based on big data enable companies to achieve precision marketing and increase customer satisfaction and loyalty, which is difficult to achieve under traditional management models, showed in Figure 1:

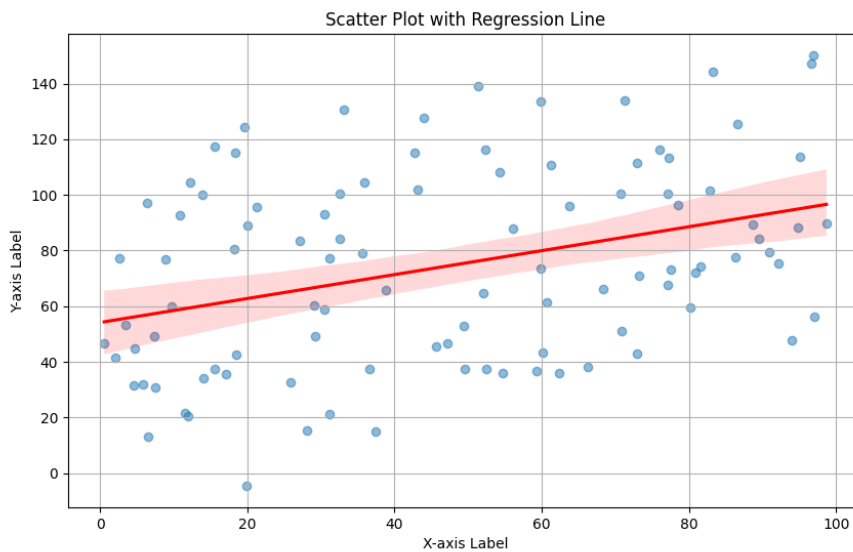


Figure 1: Scatter Plot with Regression Line

The digital economy also places higher demands on the strategic planning and innovation

capabilities of enterprises. In an increasingly competitive market environment, enterprises not only need to adapt to fast-changing external conditions, but also need to innovate continuously in order to maintain their competitive advantage. The digital economy encourages companies to adopt an open innovation model, develop new products and services with external partners, and form an ecosystem. This shift requires enterprises to have agile strategic thinking and flexible management mechanisms to respond quickly to changes in market demand and technological development.

### 3. Strategies to improve the level of business administration of enterprises

In the context of the digital economy, in order to effectively improve the level of business management, enterprises need to start from multiple dimensions and take comprehensive measures. First of all, the establishment of a digital management system is the basis for improving management efficiency and decision-making quality, and real-time monitoring and optimization of enterprise operations can be achieved through comprehensive data collection and analysis. Secondly, it is crucial to strengthen the digital skills training of employees to enhance their professional ability and adaptability, which not only enhances the overall quality of the team, but also promotes the transformation and upgrading of corporate culture. Finally, optimizing the decision support system can help enterprises better cope with the complex and changing market environment, and achieve fast and accurate management decisions through scientific data analysis and intelligent decision-making tools. These strategies complement each other and together constitute a systematic program to enhance the level of enterprise business management.

#### 3.1. Establishment of a digital management system

The establishment of a digital management system is an important foundation for improving the management level of enterprises, first of all, the application of data collection and analysis technology provides strong support for the operation and management of enterprises. Through intelligent sensors, Internet of Things technology and data analysis platforms, enterprises are able to obtain all kinds of data generated in the operation process in real time, including production progress, inventory status, sales and so on. The real-time and accuracy of this data enables enterprises to react quickly to market changes, thereby optimizing resource allocation and production processes and improving overall operational efficiency.

Digital management system can realize automation and intelligent management, reduce the workload of employees and improve management efficiency. Traditional management processes often rely on manual operations and are prone to inefficiency and human error. The digital management system, however, through automation tools and intelligent algorithms, can realize automation in all aspects from order processing, inventory management to financial accounting, ensuring smooth transmission of information and improving work efficiency. This kind of intelligent management not only reduces the management cost, but also provides data support for the enterprise's strategic decision-making. Exponential Growth Model:

$$P(t) = P_0 e^{rt} \quad (2)$$

The establishment of a digital management system can also enhance the ability of collaborative work within the enterprise. Through cloud computing and collaboration platforms, seamless communication and information sharing can be realized between different departments of an enterprise, breaking down information silos and improving overall collaboration efficiency. For example, the sales department can access inventory data in real time, and the production department can understand the changes in market demand in a timely manner, and then flexibly adjust the production plan. This cross-departmental collaboration not only improves responsiveness, but also

promotes innovation and efficiency.

In order to ensure the successful implementation of digital management systems, enterprises need to pay attention to the security and scalability of the system. With the increase in the amount of data and the complexity of the management system, enterprises must establish a perfect data security protection mechanism to prevent data leakage and network attacks. At the same time, the management system should have good scalability to adapt to the future development needs of enterprises. Through continuous technology investment and system optimization, enterprises can maintain their competitive advantage in the digital economy environment and further improve their management level.

### 3.2. Enhanced digital skills training for employees

Strengthening employees' digital skills training is an important strategy for companies to adapt to the digital economy. First, with the continuous evolution of digital tools and technologies, employees must have relevant digital literacy in order to effectively utilize these tools in their daily work. Enterprises can make their employees understand and master the latest digital technologies, such as data analytics, artificial intelligence applications, cloud computing, etc., by organizing digital skills training courses on a regular basis. This kind of systematic training not only helps employees improve their skills, but also stimulates their interest in learning and their ability to innovate, thus injecting new vitality into the transformation and development of the enterprise, showed in Figure 2 :

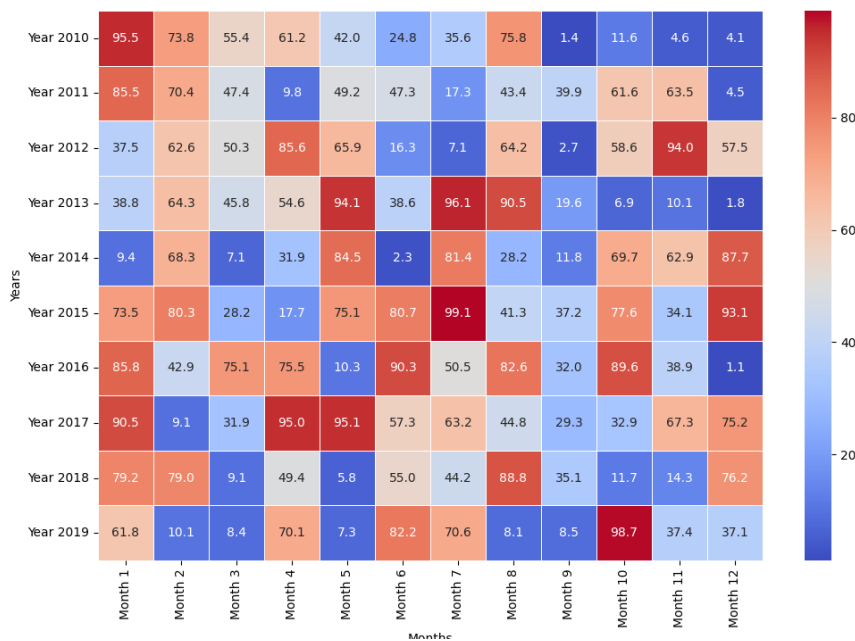


Figure 2: Monthly Data Distribution over Years

Companies should develop personalized training programs based on the needs of different positions. Different positions require different digital skills; the sales team may need to master digital marketing tools, while the production department may be more focused on the use of production management software. By customizing training programs, companies can be more targeted to improve the skill levels of their employees and ensure that each employee is able to take full advantage of digital technologies in his or her position. In addition, companies can utilize online learning platforms to provide flexible learning options that allow employees to learn on their own

outside of work, increasing the reach and engagement of training.

In addition to the training of technical skills, enterprises should also focus on cultivating the digital thinking and innovation ability of their employees. The core of the digital economy lies in flexibility and innovation, and employees not only need to master technology, but also have the ability to analyze and solve problems. Enterprises can incentivize employees to use the digital skills they have learned to solve problems in actual business through case studies, teamwork projects and innovation challenges. This hands-on training approach not only improves employees' practical skills, but also enhances their sense of teamwork and innovative thinking.

Enterprises should establish a culture of continuous learning in the process of strengthening employees' digital skills training. The rapid development of the digital economy means that knowledge and skills are updated at a faster rate, and enterprises should encourage employees to learn and improve themselves continuously. By providing continuous training opportunities, career development support, and incentives, companies can create a positive learning atmosphere and motivate employees to pursue excellence. In this way, employees can remain competitive in the digital economy, while the enterprise can also be invincible in the fierce market competition.

### 3.3. Optimization of decision support systems

Optimizing decision support systems is an important means for enterprises to achieve efficient management in the digital economy. First, decision support systems (DSS) can integrate and analyze data from different departments and external environments to provide management with a comprehensive basis for decision-making. By applying advanced technologies such as data mining, machine learning and artificial intelligence, companies can analyze massive amounts of data in depth and identify potential market trends and business opportunities. This data-based decision-making approach not only improves the accuracy of decision-making, but also helps companies to react quickly in the complex and changing market environment.

Visualization tools for decision support systems are critical to improving the efficiency of managers' decision-making. Through data visualization technology, enterprises can transform complex data into easy-to-understand charts and reports, enabling management to quickly grasp key indicators and business conditions. This intuitive presentation not only enhances the efficiency of information transfer, but also improves managers' ability to understand and analyze data. In addition, the decision support system can provide timely feedback on the implementation of decision-making through real-time data monitoring, helping management to adjust strategies in a timely manner to ensure the effectiveness of decision-making.

Enterprises should pay attention to the user-friendliness and flexibility of decision support systems in order to improve the efficiency of their use. A well-designed and easy-to-use decision support system can attract more managers to actively use it, thus realizing a data-driven management model. Enterprises can continuously optimize the system interface and function settings through user research and feedback to make them more in line with practical needs. At the same time, the system should have a certain degree of flexibility to facilitate timely adjustment of analysis models and decision rules according to business changes, ensuring that it adapts to different management scenarios and decision-making needs.

Optimizing decision support systems also requires attention to cross-departmental collaboration and knowledge sharing. In order to realize efficient decision support, enterprises should establish a good information sharing mechanism and promote data exchange and cooperation between different departments. By integrating the expertise and data of different departments, the decision support system can provide more comprehensive and accurate decision-making suggestions. In addition, enterprises should encourage employees to participate in the decision-making process, and improve

the quality of decision-making through collective wisdom, so as to achieve a higher level of management results. By building a collaborative and win-win decision support environment, companies can better meet the challenges of the digital economy and achieve sustainable development.

#### 4. Case Studies and Successful Experiences

In the process of upgrading the industrial and commercial management of enterprises, it is extremely important to draw on successful cases and experiences. First of all, an internationally renowned FMCG company has implemented a comprehensive digital management system in the process of digital transformation, successfully realizing precision marketing and inventory management by integrating various types of business data and market feedback. The company used big data analytics to gain a deeper understanding of consumers' purchasing behaviors and preferences in order to develop personalized marketing strategies. This measure not only increased sales, but also effectively reduced inventory costs and enhanced the company's market competitiveness, fully demonstrating the great potential of digital management in practical application.

A large manufacturing company has achieved significant results in enhancing digital skills training for its employees. By establishing an internal online learning platform, the enterprise provides employees with a wealth of digital skills courses covering data analysis, project management and software applications. In addition, the enterprise regularly organizes digital skills competitions to encourage employees to learn and share with each other. With this series of measures, employees' digital literacy has significantly improved, and productivity and job satisfaction have also increased. This successful experience shows that systematic training and incentive mechanisms can effectively enhance employees' professional capabilities and lay a solid foundation for the enterprise's digital transformation.

A fintech company's practice in optimizing its decision support system demonstrates the importance of cross-departmental collaboration. The company created a real-time updated decision-making platform by introducing intelligent decision support tools that integrated market data, customer information and internal operational data. On this basis, managers from various departments are able to access information and analyze data in real time, and work together to make strategic decisions on this basis. Through this cross-departmental information sharing and cooperation, the company not only improves decision-making efficiency, but also enhances the ability of each department to work together, forming a data-driven management culture.

The successful experience of the above cases reveals that digital transformation and management improvement are not a quick fix, but a systematic and continuous process. Enterprises should take into account their own characteristics and industry background, flexibly apply digital tools and technologies, and formulate practical strategies. At the same time, it is necessary to focus on staff skills training and incentives to create a positive digital atmosphere. In addition, the optimization of decision support systems and cross-departmental collaboration are also important parts of improving management. By continuously summarizing and learning from successful experiences, enterprises can achieve sustainable development and enhance core competitiveness in the era of digital economy.

#### 5. Conclusion

In the context of the digital economy, upgrading the level of business administration of enterprises is the key to coping with market competition and realizing sustainable development. By establishing a digital management system, enterprises can not only realize the improvement of operational efficiency, but also make more scientific decisions in a data-driven environment. At the same time, strengthen the staff digital skills training and cultivate innovative thinking, so that employees can make full use of digital tools to create greater value for the enterprise. In addition, optimizing the



decision support system with real-time data and cross-departmental collaboration not only improves the accuracy and efficiency of decision-making, but also promotes collaborative development within the enterprise.

In the process of upgrading the level of business management, enterprises need to comprehensively consider multiple dimensions and formulate systematic strategies. This process is not only a transformation of technology, but also a change of management concepts. Enterprises should actively learn from successful cases, summarize lessons learned, and flexibly apply digital technology to adapt to the changing market environment. Looking ahead, only through continuous innovation and adaptation can enterprises be invincible in the digital economy and gain long-term development and competitive advantages.

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