

https://ojs.bbwpublisher.com/index.php/SSR

Online ISSN: 2981-9946 Print ISSN: 2661-4332

Study on the Innovation Path of Business Administration and Human Resource Management in Digital Transformation

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Abstract: The wave of digitalization is sweeping across the world, reshaping the business environment and management mode of enterprises. Business administration and human resource management, as the core fields of enterprise operation, face unprecedented challenges and opportunities. This study focuses on the innovation paths of these two fields in the context of digital transformation, aiming to explore a new paradigm of management practice and provide theoretical guidance and practical reference for enterprises to maintain their competitiveness in the digital era.

Keywords: Digital transformation; Business administration; Human resource management; Innovation paths

Online publication: September 27, 2024

1. Connotation and characteristics of digital transformation

Digital transformation is a systematic change for enterprises to adapt to market changes and enhance competitiveness in the context of new technologies. This process not only involves technological upgrading, but also a comprehensive reshaping of business models, management processes, and organizational structures through the application of digital technology. The core of digital transformation is to realize the deep integration of information flow, business flow, and data flow through technological empowerment, to promote enterprises to realize intelligent, data-driven decision-making and operation mode [1]. This is a qualitative change process from traditional mode to digital and intelligent development, emphasizing management innovation and technological innovation in parallel.

The factors driving digital transformation are diversified and complex, mainly reflected in the dual impetus of the external environment and internal demand. On the one hand, the rapid development of emerging technologies, such as big data, the Internet of Things, blockchain, and so on, provides technical support for enterprise transformation. On the other hand, rapid changes in the market environment, especially the increasing

personalization and differentiation of customer needs, have prompted enterprises to accelerate the digitalization process. In addition, globalized competition, policy guidance, and enterprises' pursuit of improving efficiency and reducing costs are all key drivers of digital transformation.

Digital transformation has had a profound impact on enterprise management. First, the decision-making mode of enterprises has shifted from experience-driven to data-driven, improving the accuracy and timeliness of decision-making. Secondly, the organizational structure has become flatter and more agile, which helps to improve communication efficiency and reaction speed. In addition, the automation and intelligence of business processes have improved operational efficiency and reduced human intervention and error rates. Finally, the corporate culture has been transformed to emphasize innovation, collaboration, and agility to maintain a competitive advantage in a dynamically changing marketplace [2].

2. Innovative paths for business administration in digital transformation

2.1. Digital strategy planning and implementation

Digital strategy planning is the most important prerequisite and foundation for enterprises in the process of digital transformation. Successful digital transformation starts with a clear strategic plan. Enterprises need to review their industry environment, technology trends, and internal resources from a macro level, and develop a forward-looking and flexible digital strategy. This strategy should not only define the enterprise's digital vision but also refine the objectives at all levels of the business to ensure that the strategy is closely aligned with the actual implementation. The implementation of the digital strategy requires companies from leadership to grassroots staff to have a digital mindset and be equipped with the appropriate digital technology tools and platforms. In addition, enterprises need to establish a multi-departmental synergy mechanism to ensure the effective implementation of the strategy through data sharing and information transparency. Continuous monitoring and adjustment is the key to ensure that the strategy is put into practice. Enterprises must regularly review the progress of digitization, and amend and optimize their strategic plans promptly to adapt to changes in technology and the market environment.

2.2. Business process re-engineering and optimization

In the process of digital transformation, the reshaping and optimization of business processes is the core link. Traditional business processes often have problems such as opaque information and inefficient collaboration, which have been greatly improved by the introduction of digital technology [3]. Enterprises should eliminate redundant links in the process and realize the automation and intelligence of the process through the digital reconstruction of the process. For example, using artificial intelligence, big data analysis, and other technologies, enterprises can monitor and optimize key process nodes in real-time to improve the overall efficiency and accuracy of the process. At the same time, enterprises need to promote cross-departmental information integration and sharing, so that each business unit can work together efficiently based on the same data source, thus realizing the seamless integration of processes and maximizing operational efficiency.

2.3. Construction of a data-driven decision-making model

In digital transformation, data has become one of the most important assets of enterprises, and data-driven decision-making mode gradually replaces traditional empirical judgment. By establishing a comprehensive data collection, processing, and analysis system, enterprises can conduct real-time tracking and forecasting of market

trends, customer behavior, product performance, and so on, helping them make more scientific and accurate decisions. For example, through big data analysis, enterprises can accurately predict the fluctuation of market demand, to optimize inventory management and reduce inventory costs. At the same time, enterprises should focus on cultivating a data culture and promoting the ability of both management and employees to utilize data for decision-making. In addition, data security and privacy protection are important factors that cannot be ignored in data-driven decision-making [4]. Enterprises need to establish a sound data governance system to ensure data compliance and security, to ensure the credibility and effectiveness of data decision-making.

2.4. Digital marketing and customer relationship management

With the popularization of digital technology, the marketing model of businesses has undergone a dramatic change. Digital marketing utilizes the Internet, social media, mobile applications, and other platforms, enabling companies to reach their target customer groups with greater precision. Through big data and artificial intelligence technologies, companies can conduct in-depth analysis of customer behavior and develop personalized marketing programs to enhance customer engagement and satisfaction. For example, companies can push customized product recommendations and services to customers based on their historical purchase records and browsing behaviors, thereby increasing conversion rates. In addition, the application of a digital customer relationship management (CRM) system enables enterprises to manage the whole life cycle of customers in a refined manner, from customer acquisition and maintenance to loyalty enhancement, the whole process can be automated and intelligent, further enhancing customer experience and market competitiveness of enterprises.

2.5. Intelligent upgrade of supply chain management

Supply chain management is one of the important areas of enterprise digital transformation. In the context of globalization, the supply chain has become increasingly complex, and traditional supply chain management methods can no longer meet the rapidly changing market demand and diversified customer needs. Through the application of digital technology, the transparency and agility of the supply chain have been greatly improved. Enterprises can monitor the status of each link in the supply chain in real-time through IoT technology, and the entire process from raw material procurement, production, and warehousing to logistics and distribution can be managed in a refined manner [5]. For example, smart sensors can monitor inventory in real-time and automatically generate purchase orders to avoid excess or shortage of inventory. Meanwhile, using blockchain technology, every link in the supply chain can realize information transparency and traceability, enhancing the security and reliability of the supply chain. In addition, the application of artificial intelligence and machine learning technology enables enterprises to make intelligent predictions and optimization of the supply chain, improving the overall efficiency and responsiveness of the supply chain.

3. Innovative paths for human resources management in digital transformation

3.1. Development and implementation of digital talent strategy

In the context of digital transformation, organizations must rethink and re-plan their talent strategies to ensure that they can adapt to the needs of the digital era in the HR space. The formulation of digital talent strategy needs to consider not only technological capabilities, but also focus on employees' innovative thinking and cross-disciplinary collaboration capabilities. Enterprises should combine their business needs, define core digital

skills and talent profiles, and then ensure the core competitiveness of the enterprise through diversified talent acquisition channels ^[6]. In addition, the implementation of digital talent strategy needs to be closely aligned with the overall digital strategy of the enterprise to ensure that the organizational structure and job settings are flexible enough to respond to rapid changes in the market and technology. Successful implementation of the talent strategy also relies on the shaping of culture, and enterprises should attract and retain top digital talent through an open and collaborative culture.

3.2. Intelligent recruitment and talent selection

The use of digital technology is revolutionizing the way companies recruit and select talent. Intelligent recruitment has dramatically improved the efficiency and accuracy of the recruitment process through tools such as big data and artificial intelligence. Enterprises can use automated resume screening systems to quickly screen qualified candidates from a large number of job seekers, and realize remote recruitment through video interview platforms, effectively reducing recruitment time and costs. In addition, data analysis tools can comprehensively assess the candidate's career background, skill mastery, and character traits, enabling companies to more scientifically match talent. In terms of talent selection, with the help of AI algorithms and data analysis, companies can predict the performance potential of candidates in specific positions, thus improving the accuracy and fairness of selection decisions [7].

3.3. Digital training and employee development

With the digital transformation of enterprises, traditional training methods can no longer meet the needs of modern enterprises for the rapid development of talents. Digital training is not only an innovation of technical means but also a comprehensive upgrade of learning modes and content. Enterprises can provide flexible, efficient, and personalized training solutions through online learning platforms, virtual reality technology, and micro-learning applications. For example, with the help of AI technology, employees can automatically generate customized learning paths according to their skills and shortcomings to achieve more targeted learning and growth. At the same time, companies need to build a comprehensive employee development system to ensure that employees can continue to improve their skills in the process of digital transformation, to maintain professional competitiveness. Digital training should also focus on data collection and analysis, through the tracking and evaluation of employee learning data, and optimization of the training content and form to ensure that the training effect is maximized.

3.4. Digital transformation of performance management

Performance management, as a core module of human resource management, is also facing brand new challenges and opportunities in the process of digital transformation. The traditional performance appraisal model often has a long cycle, lagging feedback, and cannot reflect the real performance of employees promptly. Digital performance management systems can provide managers with more accurate and comprehensive employee performance data through real-time data collection and intelligent analysis. For example, by combining data analysis and real-time feedback on employees' work processes, managers can instantly adjust employees' goal-setting and work strategies to improve the flexibility and fairness of performance appraisal. In addition, the digital performance management system can help employees understand their performance and growth progress more intuitively through the visualization of data display, stimulating employee autonomy and motivation.

4. Co-innovation between business administration and human resources management in digital transformation

4.1. Reinvention of digital organizational structure

Digital transformation requires enterprises to make profound changes to their traditional organizational structures. In this process, business administration and human resource management must work together to reshape the organizational structure of enterprises to adapt to the rapid changes in the digital environment. The traditional organizational structure tends to be hierarchical and slow information flow, which is not adapted to the agile needs of the digital era. Therefore, enterprises should turn to flat and networked organizational forms, reduce intermediate management levels, and give more decision-making power to front-line employees to speed up the flow of information and decision-making. Business administration needs to promote the overall strategic adjustment of the enterprise in this process, while human resource management is responsible for promoting organizational restructuring to ensure that each employee can adapt to the new organizational structure, with the necessary digital skills and cross-departmental collaboration capabilities ^[8]. In addition, HR management needs to ensure that employees remain efficient and motivated under the new organizational structure through reasonable performance appraisal mechanisms and incentive policies.

4.2. Digital adaptation and reconstruction of corporate culture

Digital transformation is not only a change in technology and processes but also a cultural revolution. The digital adaptation and reconstruction of enterprise culture is an important guarantee for the success of digital transformation. Business administration and human resource management should work closely together in this process to jointly promote the transformation of enterprise culture. First of all, the business administration department needs to advocate digital thinking at the top level of the enterprise and promote the recognition and support of technological innovation and the digitalization process throughout the enterprise. Secondly, the human resources management department should be shaped through a variety of means to adapt to the corporate culture of the digital era, focusing on the staff's sense of innovation and the cultivation of the spirit of collaboration. For example, enterprises can organize digital training courses and innovation competitions to stimulate the creativity of employees and the application of digital technology. At the same time, the reconstruction of corporate culture also needs to enhance transparency and openness, so that employees can actively share their knowledge and experience in the digital environment and break down information silos. Through the synergy of business administration and human resource management, the enterprise culture can be smoothly transitioned to the mode of adapting to the digital era, and then provide cultural support for digital transformation [9].

4.3. Cross-sectoral data sharing and collaboration mechanisms

One of the core challenges in digital transformation is how to break down the information barriers between departments within an enterprise and establish an efficient cross-departmental collaboration mechanism. Business administration and human resource management have different but complementary roles to play in this process. Business management needs to design and implement a unified data platform for the organization to ensure that business data can flow seamlessly across departments. Human resource management, on the other hand, needs to facilitate cross-functional team building and ensure that employees can collaborate across functions. Through cross-departmental data sharing, companies can achieve comprehensive optimization from business to human resources, for example, business data can provide strong support for employee performance

evaluation and talent training. In addition, enterprises also need to establish digital collaboration tools, such as project management software, internal communication platforms, and so on, to ensure that different departments can work together efficiently and eliminate the problem of information silos. In this process, business management provides tools and platform support, while human resource management ensures that employees can use these tools through culture and skills training, thus realizing efficient cross-departmental collaboration.

4.4. Digital leadership development and practice

Digital leadership is one of the keys to the success of an enterprise's digital transformation. Business administration should focus on building the leadership framework of the enterprise, while human resource management should be responsible for identifying, cultivating, and motivating managers with digital leadership [10]. First, digital leadership requires managers to have a forward-looking vision and a deep understanding of new technologies. In this regard, business management should develop appropriate digital strategy training programs for business leaders to ensure that top managers can make informed decisions about digital transformation at the strategic level. Second, HR management should identify potential digital leaders through digital leadership assessment tools and provide targeted leadership development programs to help them develop the necessary digital skills and change management capabilities. In addition, digital leaders need to be agile and collaborative across departments, which also requires HR management to continuously promote leaders' diversity practices and team management capabilities. Through the development of digital leadership, enterprises can form strong leadership in digital transformation and ensure the smooth progress of various transformation initiatives.

Disclosure statement

The author declares no conflict of interest.

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