# Factors Affecting The Adoption Of Cloud Computing In Human Resource Management Among Smes In Jordan

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Abstract: This study aims to investigate the effects of technology factors and the intention to adopt Cloud-based Human Resource Management Systems on innovative behavior. This study utilizes the theoretical frameworks of the Theory of Planned Behaviour (TPB) and Diffusion of Innovation (DOI). A sample of 298 employees employed in the manufacturing sector of small and medium-sized enterprises (SMEs) in Jordan was selected for data collection and analysis. The findings obtained from the analysis conducted using Smart Partial Least Squares (SmartPLS) indicate that technology factors have a significant impact on the intention to adopt Cloud-based Human Resource Management Systems (HRMS). This, in turn, influences individuals innovative behavior. The findings of this study demonstrate the significance of the technological factor in promoting innovative behaviors through the intention to adopt Cloud-based HRMS.

Keywords: Cloud Computing, Human Resource Management System, Innovative Behaviour, and Technological Factors.

# INTRODUCTION

Over the past few years, there has been a notable emergence of transformative advancements in cloud-based Human Resource Management Systems (Nassoura & Hassan, 2021). Over the past few years, there has been a notable emergence of transformative advancements in cloud-based Human Resource Management Systems (HRMS) (Obaid et al., 2022). These advancements have revolutionized the way organizations manage their HR processes and have had a significant impact on overall HR efficiency and effectiveness (Ghaleb, 2021). One of the key advancements is the integration of artificial intelligence (AI) and automation capabilities. Cloud-based HRMS now leverage AI algorithms to automate repetitive and time-consuming tasks, such as resume screening, employee data management, and payroll processing(Obaid et al., 2023). This automation not only reduces the administrative burden on HR teams but also improves accuracy and efficiency, freeing up valuable time for HR professionals to focus on more strategic and value-added activities (Al-Sharafi & Shaalan, 2022). Additionally, cloud-based HRMS have become more customizable and flexible to meet the diverse needs of different organizations. They offer a wide range of modules and functionalities that can be tailored to specific HR processes, such as recruitment, performance management, training, and employee engagement (Ali et al., 2022). Organizations can configure their HRMS according to their unique requirements, ensuring a more personalized and efficient HR experience for employees and managers. Moreover, cloud-based HRMS provide advanced analytics and reporting capabilities (Al-Kabi & Shaalan, 2021). They can generate real-time insights and metrics on various HR parameters, such as employee performance, turnover rates, training needs, and workforce demographics (Ali et al., 2023). This data-driven approach enables HR professionals to make informed decisions, identify trends, and implement strategies to enhance organizational performance and employee satisfaction (Shaalan, 2022). The implementation of corporate citizenship (CC) in the field of Human Resource Management (HRM) was initiated with the objective of achieving innovative solutions that contribute to the long-term sustainability of small and medium-sized enterprises (SMEs). The strategic positioning of data in a central location proves advantageous for small and medium-sized enterprises (SMEs), as cloud technology facilitates streamlined operations and enhances the effectiveness of the human resources (HR) department (RashmiBhadani, 2014). According to Bourini (2021) and Torres et al. (2017), in order to enhance their competitive advantage, small and medium-sized enterprises (SMEs) must pursue growth strategies and introduce innovative services. According to prior studies, it has been argued that fostering the innovative behavior of employees is of utmost importance for small and medium-sized enterprises (SMEs). This is primarily due to the imperative nature of adapting to technological advancements and enhanced competition in the business environment (Yuan & Marquardt, 2015). Despite the increasing interest in the utilization of human resource management (HRM) technologies in diverse business organizations, there exists a scarcity of empirical research conducted on the practical implementation of cloud computing (CC) applications within the HR domain in developing nations (Milae, Mohamad, and Suryani 2019). According to AL-Awamleh (2020) and Nassoura and Hassan (2021), there is a lack of innovative capabilities among a significant number of employees in small and medium-sized enterprises (SMEs) in Jordan. Prior research has demonstrated a positive association between the adoption of technology and the manifestation of innovative behaviors (Al-Khattab & Saeed, 2016). According to the findings of Litwin (2011), the integration of new technologies presents a significant opportunity for organizations to enhance their performance in the field of Human Resource Management (HRM). The implementation of a Human Resource Management System (HRMS) as an upgrade to the current traditional HR system has the potential to be a viable and advantageous decision (Yagneshnath & Shankarrao, 2020). The Human Resource Management System (HRMS) has the potential to serve as a valuable resource for employees. Undoubtedly, the benefits of Cloud-based Human Resource Management Systems (HRMS) are perceived as manifold. The benefits encompassed in this list

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include potential financial savings, heightened security measures, prompt software enhancements, enhanced mobility, adaptable operations, expandable capacities, improved collaborative efforts, effective quality management, the possibility of disaster recovery, automatic software updates, consistent availability and sustainability, and competitive edge in the market (Avram, 2014; Martins, 2020). This study examined two technology adoption models, namely the Theory of Planned Behavior (TPB) and the Diffusion of Innovation (DOI) framework. The TPB was utilized as the foundational theory, while the DOI framework served as a supplementary theory. Ajzen (1990) introduced the Theory of Planned Behaviour (TPB). Jong and Hartog (2010) as well as Lu and Luh (2013) discovered a positive correlation between innovation outcomes and innovative behavior. According to Wang and Ritchie (2012), it has been observed that individuals tend to exhibit higher levels of intention to engage in innovative behavior when they are given adequate autonomy to plan and regulate their actions. The Diffusion of Innovations (DOI) framework has been widely employed to elucidate the factors influencing the adoption, acceptance, or utilization of novel technologies and innovative systems (Rogers, 1983). Within the context of this competition, an innovation is defined as a novel idea or object that is perceived as new by the "individual or entity of adoption." Additionally, this procedure reduces the level of uncertainty associated with the innovation (AL-Madhagy, 2018). According to the findings of Harfoushi et al. (2016), the technological factor exerted the greatest influence on the intention to adopt Cloud-based computing Cloud computing plays a crucial role in enabling the training and deployment of AI models (Baali et al., 2023). With the vast computing resources available in the cloud, organizations can accelerate the training process by distributing computations across multiple machines (Algailani et al., 2023). This significantly reduces the time required to train complex AI models (Abualrajal et al., 2022). Additionally, cloud platforms provide a convenient environment for deploying and running AI applications (Al-Sharafi et al., 2021). Organizations can deploy their AI models on virtual machines or containers, taking advantage of the scalability and flexibility offered by the cloud (Ali et al., 2023). This allows for efficient scaling of AI workloads based on demand, ensuring optimal performance and cost-effectiveness (Alrifai et al., 2023). Furthermore, cloud-based AI deployments enable easy integration with other cloud services and APIs, allowing organizations to leverage additional functionalities and data sources to enhance their AI applications (Al-Emran et al., 2022). Overall, cloud computing provides the necessary infrastructure, scalability, and flexibility for organizations to effectively develop, train, and deploy AI models, unlocking the full potential of artificial intelligence in various domains (Ali et al., 2023).

## LITERATURE REVIEW

#### The association between Technological Factors and Cloud-based HRMS

The Diffusion of Innovation theory (DOI) is a widely utilized model in the field of information technology and innovative systems research, as proposed by Rogers (1983). Furthermore, according to the findings of Davis (2015), the factors of ease of use and perceived usefulness have a significant impact on individuals' intention to adopt and utilize technology. According to the proposal put forth by Hung, Shin-Yuan, and Ku et al. (2003), the perceived usefulness of innovations plays a critical role in their adoption. According to Shin (2014), there exists a positive association between ease of use and functional utility in the context of cloud computing. Additionally, ease of use was found to have a significant impact on the intention to adopt and utilize cloud computing services. Due to its constant accessibility, the cloud demonstrates a higher level of reliability. In certain instances, employees have the option to contact the cloud center instead of relying solely on the internal IT personnel (Ankeny, 2011). Cloud storage solutions incorporate data redundancy to ensure continuous availability of files, even in the event of power failures, network downtime, and similar circumstances (Devaki, 2011). The reliability of cloud services holds significant importance for small and medium-sized enterprises (SMEs) (Sultan, 2011). Sultan emphasizes the significance of data portability for end-users, particularly in the event of primary cloud provider failure. Cloud computing provides several distinct benefits when viewed from this standpoint. These advantages encompass flexibility, mobility, and resource sharing, ultimately leading to enhanced employee performance (Harfoushi et al., 2016). The concept of mobility enables employees to conveniently access and engage with their documents from any location across the globe, contingent upon the availability of computer resources and an Internet connection. According to Ibrahim (2014), the utilization of mobility has the potential to yield benefits in terms of both time and cost savings. For instance, the utilization of new technology can lead to cost and time reductions as users are not required to dismantle an expensive infrastructure (Harfo ushi et al., 2016) Technological advancements have revolutionized the way employees access information and resources, which has a direct impact on performance. Employees no longer need to rely on manual processes or physical documents to retrieve information (Obaid et al., 2022). Instead, they can access data, documents, and resources instantaneously through digital platforms and databases. This accessibility enables employees to make informed decisions, solve problems more efficiently, and complete tasks in a timely manner (Ghaleb, 2021). Moreover, technology allows for real-time updates and notifications, ensuring employees stay up-to-date with the latest information and changes, further enhancing their performance. Additionally, technology enables employees to leverage online learning platforms and resources, enhancing their knowledge and skills (Obaid et al., 2023). This continuous learning and professional development contribute to improved performance, as employees are equipped with the necessary tools and knowledge to excel in their roles. Overall, technological factors play a crucial role in empowering employees with the information, resources, and skills necessary to perform at their best (Al-Sharafi & Shaalan, 2022).

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In this context, the following hypotheses are posited

H1: Perceived Usefulness has a significant impact on the intention to adopt Cloud-based HRMS.

**H2:** Ease Of Use has a significant impact on the intention to adopt Cloud-based HRMS.

**H3:** Reliability has a significant impact on the intention to adopt Cloud-based HRMS.

## Cloud-based HRMS and Innovation Behaviour

Innovation behavior pertains to the manner in which an employee engages in the implementation of novel concepts, procedures, products, technology, and their contribution to the organizational structure (Yuan & Marquardt, 2015). The cultivation of an employee's capacity for innovative behavior holds significant importance for an organization, as it necessitates the ability to effectively respond to heightened competition and advancements in technology. According to Bourini (2021), the presence of innovation is crucial for the mere survival of organizations, as well as for their ability to remain competitive and achieve long-term success. Prior research has indicated a positive association between innovative behavior and employee task performance (Dorner, Gassmann, & Morhart, 2012; Chan & Rasli, 2014). In accordance with the research conducted by Ying Zhang, Zhang, Forest, and Chen (2018), it is evident that engaging in innovative behaviors can result in favorable outcomes, specifically in terms of enhancing employee job performance. According to Chan and Rasli (2014), the adoption of innovative behavior roles can lead to a more rapid development of an individual's mindset, ultimately resulting in improved employee performance. The cultivation of an employee's capacity for innovative behavior holds significant importance for an organization, as it necessitates the ability to effectively respond to heightened competition and advancements in technology. Prior research has established a significant association between the adoption of technology and the manifestation of innovative behaviors (Al-Khattab & Saeed, 2016). According to the study conducted by Litwin (2011), the integration of new technologies presents a significant opportunity for companies to enhance their performance in the field of Human Resource Management (HRM). Numerous studies have established a correlation between Human Resource Management (HRM) and innovation (Messersmith & Guthrie, 2010; Bos-Nehles et al., 2017). The field of Human Resource Management (HRM) plays a significant role in shaping the attitudes, behaviors, and knowledge of individuals. Extensive research has established a connection between HRM practices and their impact on organizational innovation. However, it is important to note that individual innovative behavior plays a crucial role in enhancing the capacity for innovation within organizations. This is primarily due to the fact that individuals serve as the cornerstone of every innovative endeavor (Nassoura and Hassan, 2021) A cloud-based HRIS offers numerous advantages when it comes to managing employee performance. By providing a centralized and accessible platform, it enables organizations to set and track goals, provide continuous feedback, conduct performance reviews, and facilitate skill development (Ali et al., 2022). The system promotes open communication between managers and employees, fosters a culture of growth and development, and ensures that performance-related data is captured and analyzed effectively. With its data analytics capabilities, organizations can gain valuable insights into performance trends, identify areas for improvement, and make informed decisions to enhance overall employee performance (Al-Kabi & Shaalan, 2021). Additionally, the accessibility and collaboration features of a cloud-based HRIS support remote work arrangements and enable effective teamwork across geographically dispersed teams. In summary, a cloud-based HRIS optimizes performance management processes, enhances employee engagement, and empowers organizations to make data-driven decisions to drive success (Ali et al., 2023).

In this context, the following hypotheses are posited:

**H4:** Cloud-based HRMS has a significant impact on innovative behaviour.

## The Mediating Role of the Intention to adopt Cloud-based HRMS

Previous studies have explored the factors that impact the intention to adopt cloud computing, with a focus on technological aspects such as perceived usefulness, reliability, and perceived ease of use (Raut et al., 2017; Nassoura & Hassan, 2021). Harfoushi et al. (2016) found that the technological factor had the most significant influence on the inclination to embrace cloud-based computing. In line with this research, the present study investigates the factors of perceived usefulness, reliability, and perceived ease of use as determinants that could potentially influence the intention to adopt cloud-based Human Resource Management Systems (HRMS). The study aims to examine how these factors relate to the mediating variable, which is the intention to adopt cloud-based HRMS, and how this, in turn, influences innovation behavior as the dependent variable. By examining these relationships, the study seeks to understand the impact of technological factors on the adoption of cloud-based HRMS and how this adoption influences innovation behavior within organizations. The findings of this study can contribute to our understanding of the drivers and outcomes of adopting cloud-based HRMS, providing insights for organizations looking to enhance their HR processes and foster a culture of innovation. It is worth noting that the specific details and methodologies of the study are not provided in the given context. However, the study's focus on exploring the relationships between technological factors, intention to adopt cloud-based HRMS, and innovation behavior can shed light on the potential benefits and implications of adopting cloud-based HRMS in driving innovation within organizations.

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In this context, the following hypotheses are posited:

H5: Cloud-based HRMS significantly mediates the relationship between Perceived Usefulness and innovative behaviour.

H6: Cloud-based HRMS significantly mediates the relationship between Ease of Use and innovative behaviour.

H7: Cloud-based HRMS significantly mediates the relationship between Reliability and innovative behaviour.

## **METHODOLOGY**

The study utilizes a quantitative research methodology, following the approach described by Bougie and Sekaran (2019), in order to achieve the research objectives. The current study utilizes structural equation modeling (SEM-PLS) to analyze the interconnectedness between the constructs described in the conceptual framework, as illustrated in Figure 1. This study aims to examine the potential impact of Technological Factors on the intention to adopt cloud-based HRMS, and its subsequent influence on innovative behavior. Additionally, the study explores the moderating effect of leadership support on this relationship. The present study utilizes structural equation modeling (SEM-PLS) to examine the interrelationships between the constructs outlined in the conceptual model, as depicted in Figure 1.



**Figure 1.** Conceptual framework of this study.

#### Population and sample

The unit of analysis employed in this study was at the individual level. The individuals encompassed in this category consist of employees specializing in human resource management as well as IT staff members who possess knowledge and expertise in the field of cloud computing services (Tarhini et al., 2017). The manufacturing sector was chosen from an official database maintained by the Department of Statistics in Jordan. Organizations have the ability to procure and effectively employ novel systems due to the necessity for contemporary approaches in managing their workforce in a professional manner (Saleh, 2014). The present study encompassed organizations operating within the Information and Communication sector, specifically those with a workforce size of fewer than 100 individuals on a full-time basis. According to the Department of Statistics (2018), the Amman Manufacturing sector comprised a total of 9569 medium and small companies. A total of 298 surveys were made accessible for the purpose of analysis.

### Partial least square (PLS-SEM)

In order to examine the proposed model, the researchers employed Partial Least Squares Structural Equation Modeling (PLS-SEM) to forecast the construct and interrelationships among constructs, as suggested by Hair et al. (2013) and Reinartz et al. (2009). According to the findings of Hair, Ringle, and Sarstedt (2011), the Partial Least Squares (PLS) approach is considered a versatile tool that is well-suited for constructing a statistical model. Path modeling, also known as structural equation modeling, is a statistical technique that allows for the simultaneous estimation of associations between constructs in a structural model and the relationships among indicators and their corresponding latent constructs in a measurement model (Duarte & Raposo, 2010). This technique is considered powerful in the field of statistics (Tabachnick & Fidel, 2007).

# Collinearity analysis

A thorough collinearity evaluation technique was used, which allowed for the identification of a common method bias (CMB) for PLS-SEM (Kock, 2015). According to Kock (2015), the values of the variance inflation factor (VIF) should be less than the threshold of 3.3. As a consequence, the findings demonstrate that the model is devoid of any typical procedure. Variation in which every single build has an inner VIF value that is lower than 3.3.

## **Assessment of Measurement Model**

Formative and reflective measuring models are both included in the category of outer models employed in this research. It is necessary to use a variety of standards and approaches in order to evaluate their level of quality (Chin, 2010; Hair et al., 2011; Hair et al., 2013). This study examined the most critical elements that influence the adoption of cloud computing in HRMS, so the effects of the IV on DV are important and have been examined in this research. Therefore, the stage for assessing the measurement model

consisted of two stages of analysis: 1) An evaluation of the constructs' combined reliability and validity, followed by 2) an examination of the R square and the effect size. Composite reliability (CR) and average variance extracted (AVE) are two important characteristics that should be considered when doing a reliability and validity analysis using the reflective measurement paradigm (Chin, 2010; Hair et al., 2013). These criteria can be found in Table 1 of (Chin, 2010; Hair et al., 2013)...

Table 1

Results of the measurement model for first-order constructs.

	Items	Factor loading	AVE	CR	Cronbach's alpha	
UL	UL 1	0.802	0.652	0.885	0.835	
	UL 2	0.753				
	UL3	0.835				
	UL 4	0.838				
EoU	EoU 1	0.873	0.701	0.913	0.853	
	EoU 2	0.753				
	EoU 3	0.894				
	EoU 4	0.821				
Re	Re 1	0.893	0.468	0.782	0.807	
	Re 2	0.581				
	Re 3	0.592				
	Re 4	0.618				
IA	IA 1	0.762	0.707	0.945	0.932	
	IA 2	0.859				
	IA 3	0.865				
	IA 4	0.888				
IN	IN 1	0.767	0.645	0.925	0.908	
	IN 2	0.801				
	IN 3	0.866				
	IN 4	0.873				
	IN 5	0.725				
	IN 6	0.818				
	IN 7	0.752				

Conducting studies on indicator reliability and construct reliability is required in order to do a reliability analysis of the reflected measurement model used for SEM. Checking the loading of each indicator on its related latent construct is one of the steps that has to be taken in order to evaluate the reliability of the indicators (Chin, 2010; Hair et al., 2011). In most cases, both the CR and the more prevalent Cronbach's alpha coefficients are taken into account (Bagozzi and Yi, 1988; Gotzet al., 2010; Chin, 2010). According to Hair et al. (2011), PLS-SEM is a better use for CR. Table 1 demonstrates that the CR for all latent variables attained a value greater than 0.782, indicating that the construct had successfully met the criterion for its level of dependability. Also, Table 1 shows that the values of AVE (more than 0.5) indicated that the model had attained adequate convergent validity (Anderson and Gerbing, 1988).

According to Chin (1998) and Hair et al. (2013), the concept of discriminant validity refers to the degree to which one construct is actually unique from the other constructs in the model. In order to verify the discriminant validity, there are two measurements that need to be examined. The AVE of each construct should be higher than the highest squared correlation of the construct with any other LV in the model, and an indicator's loading with its associated LV must be higher than its loading with other LVs (Fornell & Larcker, 1981; Hair et al., 2011; Chin, 2010). In addition, the results may be seen in Table 2. A comparison of the square root of the AVE of each construct with the correlation of the other construct reveals that the discriminant validity is acceptable for all of the constructs, and the square root of the AVE is larger than the correlation between these and other constructs. The measuring model that consisted of the constructs was shown to have extremely acceptable levels of reliability, convergent validity, discriminant validity, and complete collinearity (see Tables 2).

Table 2

The Discriminant Validity Index Summary.

	EoU	RE	IN	IA	UL
EoU	0.837				
RE	0.627	0.833			
IN	0.482	0.554	0.803		
IA	0.754	0.614	0.553	0.842	
UL	0.724	0.679	0.569	0.761	0.808

#### **Assessment of Structural Model**

In accordance with the stated objectives of this study, it is recommended that two iterations of evaluation be conducted on the structural model. The assessment of the relationships between the constructs and Innovative Behavior has been conducted. To obtain an initial evaluation of the structural model (inner model), two criteria should be assessed: The R-square (R2) measure of endogenous constructs and the path coefficients have been discussed in previous studies (Hair et al., 2011; Chin, 2010). Significance of the path coefficients is a crucial requirement, while the determination coefficient (R2) exhibits a high level of dependence on the specific research domain. According to Chin (1998), R2 values of 0.67, 0.33, and 0.19 are proposed as benchmarks for determining substantial, moderate, and weak levels of association, respectively. Hair et al. (2013) have suggested that an R2 value of 0.20 is regarded as high within the domain of consumer behaviour. The current study yielded an R2 value of 0.509 for the endogenous construct of Innovative Behaviour. Hence, the observed value was deemed satisfactory. The results presented in Table 3 indicate that all path coefficients were found to be statistically significant. Thus, all hypothetical relationships exhibited statistical significance and received empirical support. In order to assess the effect size (f2), an additional criterion is employed to determine the magnitude of the effects represented by path coefficients, categorizing them as either high, moderate, or low. According to Cohen (1988), the values of 0.02, 0.15, and 0.35 for the variable f2 correspond to low, moderate, and high effects, respectively. The effect size is a measure that indicates the magnitude of the impact of a particular independent latent variable (LV) on a dependent LV, as stated by Chin (2010). It is determined by calculating the difference in the R2 of the dependent LV when the independent variable is included or excluded from the model. Table 3 presents the findings indicating that the relationships observed in the model exhibit moderate and low effects, ranging from 0.010 to 0.090. The effect size of the relationship between Relative Advantage and Intention to Adopt cloud-system HRMS is found to be the highest.

After establishing the validity of the structural model, the subsequent task involves evaluating the path of the proposed structural model. Table 3 presents the structural model and the corresponding analytical findings. Each pathway corresponds to each hypothesized proposition in this thesis. The examination of the sign, magnitude, and statistical significance of the path coefficient between the latent variable and its dependent variables is utilized to conduct the test for each hypothesis. A positive correlation exists between the magnitude of the path coefficient and the strength of the influence exerted by latent variables on the dependent variable. The majority of the proposed relationships demonstrate statistical significance at a significance level of p<0.01. These entities lack significance. Table 3 presents a comprehensive summary of the outcomes derived from the hypotheses testing pertaining to the examination of relationships and effects, as per the conducted tests.

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The results pertaining to the direct effect associations in the present study are presented in Table 3. The determination of the direct effect hypothesis is contingent upon the assessment of the probability value (p-value). The regression coefficient quantifies the impact of an exogenous variable on its corresponding endogenous variable. In relation to this matter, the representation of a causal effect between an exogenous construct and its corresponding endogenous construct is symbolized by a unidirectional arrow (Afthanorhan et al., 2019; Asnawi et al., 2019; Awang, 2015; Awang et al., 2018; Kashif et al., 2015, 2016; Mohd Azli et al., 2017).

Table 3

Results of path coefficients and hypotheses testing for the model

Hypotheses	Path coefficient	T-value	P-value	$\mathbf{F}^2$	Supported
Ease of Ues → Intention to Adopt cloud-baesd HRMS	0.161	2.986	0.003	0.037	Yes
Reliability → Intention to Adopt cloud-baesd HRMS	0.083	2.033	0.002	0.010	Yes
Uesfulness → Intention to Adopt cloud-baesd HRMS	0.257	4.183	0.000	0.090	Yes
Intention to Adopt cloud-system HRMS → Innovative Behavior	0.172	2.722	0.006	0.033	Yes
Ease of Ues → Intention to Adopt cloud-baesd HRMS → Innovative Behavior	0.027	2.328	0.021	N/A	Yes
Reliability → Intention to Adopt cloud- baesd HRMS → Innovative Behavior	0.014	2.856	0.031	N/A	Yes
Uesfulness → Intention to Adopt cloud-baesd HRMS → Innovative Behavior	0.044	2.355	0.018	N/A	Yes

## Discussion

The findings of this research are generally consistent with prior studies pertaining to the utilization and acceptance of technology. The main objective of this study was to propose and evaluate an enhanced model that investigates the factors that could potentially impact the technological aspects of intention to adopt cloud-based HRMS in the manufacturing sector. The findings of our study reveal an intriguing aspect, namely, that a significant number of companies did not acknowledge the potential impact of ease of use and usefulness on their willingness to adopt new technologies. Furthermore, a crucial factor to consider is the reliability of utilizing novel technologies. When organizations contemplate the adoption of new technologies, it is imperative for them to assess whether these innovations will result in the creation of additional job opportunities and confer competitive advantages over other small and medium-sized enterprises (SMEs). Therefore, drawing upon the preceding discourse, the present investigation proposes the following recommendation: Enhancing the applicability of cloud-based Human Resource Management Systems (HRMS) for Small and Medium Enterprises (SMEs) by facilitating the procurement or leasing of software solutions that effectively address the specific requirements of these organizations. Enhancing the reliability and security of cloud-based Human Resource Management Systems (HRMS) for companies and institutions. Undoubtedly, the benefits of Cloud-based HRMS are perceived as manifold. The benefits encompass various aspects, including potential financial savings, enhanced security measures, prompt software upgrades, enhanced mobility, increased flexibility, scalability, improved collaboration, effective quality control, the possibility of disaster recovery, automatic software updates, availability and sustainability, as well as competitive advantages (Salesforce, 2021; IBM, 2021). Furthermore, the psychological capital dimensions (self-efficacy, hope, optimism, and resilience) on liquidity and production efficiency indicators in Gaza Strip Governorates. Financial flexibility and individual productivity indicators showed no significant

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effect. Financial performance during 2014-2016 was low. Resilience had a significant effect based on age, while other dimensions (self-efficacy, hope, and optimism) had no significant effect based on controllable variables (age, qualification, experience, and current job). Strategies like job satisfaction, incentives, work environment, and equity improved financial performance in Gaza Strip Governorates (Ismail, 2020). Cloud-based Human Resource Management Systems (HRMS) have the potential to reduce initial expenses for businesses, granting them immediate access to hardware resources without significant upfront investments. This technology also diminishes obstacles to innovation and enables organizations to expand their services as they progress (Ayram, 2014; ECPI, 2021; Martins, 2020). The results of the study also demonstrated a significant correlation between the inclination to implement cloud-based HRMS and the display of innovative behavior. The presence of innovative behavior has been found to be linked to human competence, thereby generating advantageous prospects and advantages for both the organization and the individual (Shaalan, 2022). It's important to note certain constraints of the study (Baali et al., 2023). The research scope was limited to SMEs in the manufacturing sector in Jordan, and data collection relied on subject matter experts (SMEs) from a specific region in Jordan, which may limit generalizations to other contexts (Algailani et al., 2023). Additionally, the study adopted a cross-sectional survey methodology within a limited timeframe, which could have introduced response bias (Abualrajal et al., 2022). The cultivation of innovative employee behavior has the potential to assist small and medium-sized enterprises (SMEs) in achieving market competitiveness, as well as enhancing overall performance and productivity. The present investigation exhibits certain constraints. The scope of this study was constrained, focusing solely on small and medium-sized enterprises (SMEs) in Jordan and exclusively within the manufacturing sector. Furthermore, an additional constraint of the study was the utilization of subject matter experts (SMEs) solely from a specific region in Jordan for the purpose of data collection. This approach may hinder the ability to make generalizations beyond this particular region. Furthermore, this study employed a cross-sectional survey methodology to gather data within a limited timeframe. The data collected in this study may have been influenced by response bias due to the utilization of a cross-sectional designthe study emphasizes the need for organizations to recognize the potential benefits of cloud-based HRMS, address specific requirements, enhance reliability and security, and foster innovative behavior. Understanding these factors can support successful adoption and utilization of cloud-based HRMS, leading to improved performance and competitiveness in the manufacturing sector.

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