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An empirical study of the impact of knowledge acquisition, sharing and utilization on organizational performance of higher education institutions (HEIs), and the moderating role of organizational culture.

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Abstract

Despite the amplified importance of knowledge management in organizations, there is a lack of studies exploring the interaction of knowledge management (KM) processes and organizational performance (OP), specifically in the perspective of higher education institutions (HEIs). This paper investigates the impacts of three KM processes, including knowledge acquisition, sharing, and utilization, on higher educational organizations' performance, in addition to the moderating effect of organizational culture in the context of higher education institutions (HEIs). In that regard, a model integrating higher educational performance with the three knowledge management processes and organizational culture is proposed and analyzed using SEM-PLS. This analysis showed that two of the three knowledge management processes, namely knowledge acquisition (KA) and utilization (KU), significantly affect organizational performance.

Keywords: knowledge management, organizational performance, organizational culture, higher education institutions.

Introduction

Across the world, businesses are now facing a common challenge in the wake of rapid changes in the corporate ecosystem (Obeidat et al., 2016). To survive in this economic environment, organizations need to improve their performance continually. Past studies revealed that the dynamic global business environment, which is highly dependent on managing knowledge effectively and efficiently, is at the heart of creating core competencies for an organization (Storey & Barnett, 2000a). This has been supported by recent researchers (Muthuveloo et al., 2017) where they asserted that knowledge management is crucial for any organization seeking to prosper and enhance its organizational performance. Additionally, organizations are increasingly viewing Knowledge Management (KM) as their most valuable strategic asset. They are striving to find new ways to increase business performance by developing effective KM processes (Alaarj et al., 2016).

On developing such an effective KM practice, organizations must know how to manage their knowledge by expanding, disseminating, and exploiting it effectively. Additionally, organizations need to understand knowledge management (KM) success factors to be better equipped to implement KM practices effectively. KM success factors refer to all those factors, such as organizational culture (OC) behaviors that facilitate knowledge management (KM) processes or activities (Al-Hakim & Hassan, 2016).

Since their inception, higher education institutions (HEIs) are considered by researchers as knowledgedriven organizations. They are primarily involved in learning and knowledge creation, developing, preserving, and dissemination through publications. Therefore, they have their place in society by

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generating new ideas (Ahmad et al., 2017; Fullwood & Rowley, 2017). Similarly, higher education institutions (HEIs) can apply KM to support their missions by expanding knowledge-based practices in line with their institutional successes, particularly their performance.

Despite the vital role KM processes play in an organization, in general. Specifically, there are still issues related to the effects of KM processes on organizational performance (Shahzad et al. 2016) that require special attention.

This study attempts to complements prior work on knowledge management and performance of HEIs by examining the relationship between knowledge acquisition, utilization, sharing, and organizational performance of HEIs. Consequently, the study examines the moderating effect of organizational culture on these relationships. In the same vein, the research attempted to answer the following two research questions (RQ):

1. To what extent do knowledge acquisition, sharing, utilization impact the performance of HEIs?

2. How does organizational culture moderate the relationship between knowledge acquisition, sharing, utilization, and organizational performance of HEIs?

The remaining of the paper is organized as followed: first, an exploration of the literature necessary to understand the context of this study and a review of the existing body of knowledge are provided. Next, the research model and hypotheses are proposed and reviewed. Then, the research methodology is discussed. Finally, an analysis of the data is presented, followed by a discussion and conclusion.

Literature review

The section provides an overview of theories relevant to knowledge management processes and knowledge management in higher education. An overview of organizational performance and organizational culture is also presented. The section concluded by critically reviewing the current literature to identify the research gaps.

Knowledge Management Processes

There has been a lot of scholarly work conducted in the past on KM processes. Knowledge management processes are considered organized activities and give the researchers immense importance in organizational capabilities (Alaarj et al., 2016). This study focuses on knowledge acquisition, knowledge utilization, and knowledge sharing. Each one of these is discussed in more detail below.

According to Chiu et al. (2016.), knowledge acquisition results from employees' participation and interaction of people, resources, and technology. It also encompasses creating knowledge or innovation by using existing knowledge in an organization.

Knowledge sharing (KS) refers to exchanging knowledge between academics and researchers among peers within a university to enhance their knowledge base and that of their universities (Veer Ramjeawon & Rowley, 2018). KS culture's subsistence helps higher educational organizations improve their research and teaching endeavors (Madbouly et al., 2020). Therefore, each HEI demands a culture and environment that facilitate KS through developing teamwork, networking, and collaboration (Madbouly et al., 2020).

According to Ramjeawon, P.V., and Rowley, J. (2018), Knowledge utilization refers to disseminating knowledge created by the academics and researchers within a university to external stakeholders or partners for its application and use and service to society.

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Organization performance (OP)

The growing challenges to the organization in either achieving or nurturing competitive advantage have made an organizational performance increase considerable attention to survive in such a highly competitive environment. As a result, organizational performance is regarded as an essential variable to measure organizational success. Mostly, there is an increasing emphasis on improving the operations of knowledge-based institutions. Measuring organizational performance is not a trivial task because it strongly affects the behavior of managers and employees.

Organizational culture (OC)

Organizational culture has emerged as an issue of vital interest within the business community for the last ten years (Tierney 1988). Accordingly, the number of studies on organizational culture is increasing. (Fleury (2009) pointed out that culture is a well-known topic in the academic plan, being discussed in day-to-day debates within organizations. Organizational culture is usually the element that drives the organization forward. It establishes an operational ecosystem in which every employee attempt to achieve the goal set by the organization (Narayana, 2017). Understanding culture is essential for the employees, the stakeholders, and the organization in general.

Knowledge management in Higher education institutions (HEIs)

The higher-education industry worldwide faces a dynamic and unstable environment due to tendencies such as changing demographics in the student" population, decreased public funding, and the greater importance of information and communication technology in the learning and teaching process. Further, higher education institutions (HEIs) have a long record in several facets of knowledge. According to (Ahmad et al., 2015), knowledge management promotes the services and processes of HEIs. These services and procedures include the research process, the curriculum development process, teaching and learning processes, student and alumni services, administrative services, and strategic planning. Knowledge management supports various functions in HEIs' administration. Examples include strategies for attracting prospective students, supplying information about HEIs resources and programs, and providing a rich information-filled environment for decision-making.

Related work and the research gap

A total of 219 employees from 26 universities in Pakistan responded to the survey study. Factor analysis and multiple regression techniques were used to test various hypotheses. The results revealed that KM processes have a significant positive impact on organization performance. In another study, Ahmad et al. (2015) investigated the effects of KM practices on OP. (Shahzad et al. (2016) found that the integration of knowledge strategy and KM processes leads to organizational creativity and performance. The results indicate that knowledge management practices significantly improve organizational performance (Ahmed et al., 2020). Alternatively, ((Mardani et al., 2018) asserted that KM processes influence OP through the use of other variables. These conflicting opinions reveal that KM's effects on firm performance are still ambiguous (Shahzad et al., 2016).

To the knowledge of the authors, no study investigated the role of culture. Further, very few of these studies established a link between the impact of KM on OP in the context of higher education institutions (Fullwood & Rowley 2017.Pdf, n.d.). Accordingly, this paper aims further to examine the relationship between KM processes and OP, emphasizing the moderating effect of organizational culture.

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Research Model and Hypothesis building

Conceptual model

Figure 1 below shows the conceptual model of the study. The model depicts the relationship between KM processes: knowledge acquisition (KA), knowledge sharing (KS), and knowledge utilization (KU), and organization Performance (OP), and the moderating effect of organizational culture in the relationship between the three knowledge management processes and OP.

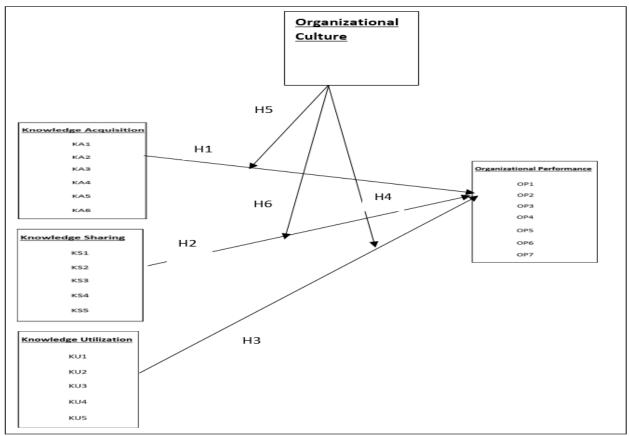


Figure 1. Conceptual model

Hypothesis development

KM effectiveness and its impact on organization performance

KM is equally essential in HEIs, such as research universities, due to its potential contribution to their performance (Masa'deh et al., 2017). For instance, knowledge acquisition, sharing, and utilization improve organizational collective learning and decision-making and enhance productivity and profitability (Chiu et al., 2016; Masa'deh et al., 2016). Many recent studies revealed a significant, positive, and direct association between KM processes and OP (Chiu et al., 2016; Shahzad et al., 2016) Additionally Ahmad et al. (2015) confirmed a positive and direct association between KM processes and universities' performance. Consequently, the following hypothesis can be deducted.

H1. Knowledge acquisition (KA) has a positive impact on the organization performance of HEIs.

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H2. Knowledge sharing (KS) has a positive impact on the organization performance of HEIs H3. Knowledge utilization (KU) has a positive impact on the organization performance of HEIs

Organizational culture and its impact on the relationship between KA, KS, KU, and OP. knowledge management

The literature reveals that high organizational performance is associated with an organization having a strong culture with a practical and well-integrated set of behaviors and beliefs. Culture can support linkages between technology adoption and organizational growth, and it can be a critical success factor of KM. We hypothesize the following:

H4. Organizational Culture has a positive moderating positive impact on the relationship between Knowledge utilization and organization performance of HEIs.

H5. Organizational Culture has a positive moderating impact on the relationship between Knowledge acquisition and organization performance of HEIs.

H6. Organizational Culture has a positive moderating impact on the relationship between Knowledge sharing and organization performance of HEIs.

Research Methodology

Survey instrument

The survey instrument is comprised of two parts. The first part covers demographics-related questions such as gender, age, and other open-ended questions providing context and supporting future qualitative analysis of the results. The second part contained the research questions related to the different constructs: organizational performance, knowledge management-related constructs, and organizational culture-related constructs.

Data Collection

Data was collected using a survey disseminated to a sample of diverse individuals from an institution of higher education and who have experience in information systems. The institutions represent several private and public universities from the United States of America.

Data Analysis

Partial least squares structural equation modeling (PLS-SEM) was used to determine causal relationships. PLS-SEM, one of two categories of structural equation modeling (SEM), was selected due to its recognized capacity towards exploratory research in the social sciences and its fortitude towards estimating causative relationships between constructs (Hair et al., 2017). PLS-SEM is suitable for handling smaller sample sizes and makes no assumptions regarding data distribution (Wong, 2019). SmartPLS version 3.3.3 (Ringle et al. 2015) was used for PLS-SEM model estimation for its acceptance among the academic community and for its efficiency in assessment (Wong, 2019)

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Results

Descriptive Statistics of Respondents

Table 1 summarizes descriptive measures of collected demographics. We observe 48% of respondents were females, 22% were male. We also keep that 29% of the respondents were over 50 years, and 86% of the higher institutions were public, 8% were private, not-for-profit, and 5% were private for-profit institutions. A total of 70 responses were collected.

Table 1: Descriptive Statistics of Respondents									
	Item	Freq.	%		Items	Freq.	%		
GDR	Female	48	66%		Public	63	86%		
	Male	22	30%	TOI	Private, not-for-profit	6	8%		
	Other	1	4%		Private, for-profit	4	5%		
	Under 31 years	1	1%		Certificate	0	0%		
	31 to 35 years	3	4%		Associate	32	5%		
ACE	36 to 40 years	11	15%		Bachelor	4	5%		
AGE	41 to 45 years	15	21%	HLD	Masters	13	18%		
	46 to 50 years	14	19%		Doctoral	22	30%		
	Over 50 years	29	40%		Professional (e.g., MD, JD, DDS)	1	1%		

 Table 1: Descriptive Statistics of Respondents

*GDR: Gender; AGE: Age; TOI: Type of Institutions; HLD: High-Level Degree conferred

Measurement Model Testing

Table 2 summarizes the quality metrics for the measurement model, including tests for convergent validity, internal consistency reliability, and discriminant validity with a significance level (alpha) of 0.05 and biascorrected (BC) for interval analysis. All loadings exceed the recommended value of 0.70, accounting for a minimum of 50% of the variance for related constructs (*Gao et al., 2017*). AVE levels for all latent variables were higher than the recommended minimum value of 0.50 (Hair et al. 2017), affirming convergent validity. Internal consistency was compared with accepted values of 0.60 and 0.70 for Cronbach's alpha and composite reliability (CR), respectively. All constructs passed, indicating no issues with internal consistency (Hair et al., 2017). Two criteria of Heterotriat-monotrait (HTMT) were reviewed to assess discriminant validity, including an HTMT ratio of correlations score below the cutoff of 0.85 (Hair et al. 2020) and an HTMT interval not containing one, considering a confidence level (CI) of 95% (Hair et al. 2017; Wong 2019). All constructs passed both criteria, confirming discriminant validity.

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Table 2: Weasurement Woder Test Summary								
	Convergent Validity			Internal Consist	ency Reliability	Discriminant Validity		
Latent	Loadings	IR (rho_A)	AVE	Cronbach's Alpha	Composite Reliability	нтмт		
Variables	>0.70	>0.50	>0.50	>0.60	>0.70	<085	CI	
KA	Yes	0.895	0.682	0.881	0.914	Yes	Yes	
KS	Yes	0.907	0.740	0.884	0.919	Yes	Yes	
KU	Yes	0.951	0.868	0.949	0.963	Yes	Yes	
OP	Yes	0.853	0.576	0.853	0.891	Yes	Yes	
ОС	Yes	0.962	0.717	0.96	0.965	Yes	Yes	

 Table 2: Measurement Model Test Summary

Structural Model Testing

The structural model was estimated utilizing the PLS algorithm with complete bootstrapping using the biascorrected confidence interval method, two-tailed test, 5,000 subsamples, and mean replacement for missing values. Table 3 shows the results of the estimation of endogenous variables. The results indicate an explained variances of 55.3% for the OP with a p-value of 0.000. Blindfolding (omission distance of 7) was the method used to calculate Stone-Geisser's Q2, which measures the predictive relevance of the model (Wong 2019). Overall, the results indicate a better than moderate predictive relevance for OP.

Table 3: Endogenous Variable Summary

Endogenous	Coefficient of Determination (R2)				R2 Adjusted		
Latent		Confidence			Confidence		Predictive
Variables	Value	Interval (BC)	p-value	Value	Interval (BC)	p-value	Relevance Q2
OP	0.553	[0.405, 0.658]	0.000	0.505	[0.452, 0.685]	0.000	0.281

Table 4 shows the results regarding the exogenous variables' effects on endogenous variables. This includes moderating effects of OC. Considering VIF values of under 5.0, multicollinearity is not an issue for all hypothesized relationships (Hair et al. 2013) except for H3 with a VIF value of 5.357. Based on path coefficients and significance, the results support hypothesis H1 at an alpha of 0.01 (***), H3 at an alpha of 0.05 (**). However, H2, H4, H5, and H6 were well beyond acceptable significance levels, indicating failure to infer any effect in the relationships between latent constructs (H2) and the moderating effect of culture (H4, H5, and H6). Effect size (f2) denotes the impact of exogenous variables on an endogenous variable, with 0.02, 0.15, and 0.35 being criteria for small, medium, or significant effects, respectively(*Hair et al., 2013*). Of the meaningful relationships identified, H3 had a somewhat medium impact.

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Table 4: Structural Model and Hypothesis Summary (* p ≤ 0.10, ** p ≤ 0.05, *** p ≤ 0.01)								
Hypothesis	Relationship	VIF <5.0	Path Coefficient	Confidence Interval (BC)	p-value	Effect Size (f12)		
H1	KA -> OP	3.664	0.314	[0.008, 0.017]	0.02	0.06		
H2	KS -> OP	4.759	0.121	[-0.281, 0.511]	0.555	0.007		
H3	KU -> OP	5.357	0.579	[0.258, 1.059]	0.006	0.14		
H4	KU*OC -> OP	3.49	0.066	[-0.340, 0.398]	0.723	0.003		
H5	KA*OC -> OP	3.947	-0.186	[-0.503, 0.298]	0.359	0.019		
H6	KS*OC -> OP	0.048	0.031	[-0.304, 0.472]	0.876	0.001		

Moderator Analysis

For moderator analysis, the path coefficient is reflective of the interaction term. The three graphs are shown in Figure 2 exhibit the slope analysis of the moderating effect of OC on these relationships when using the two-stage approach for creating the interaction terms.

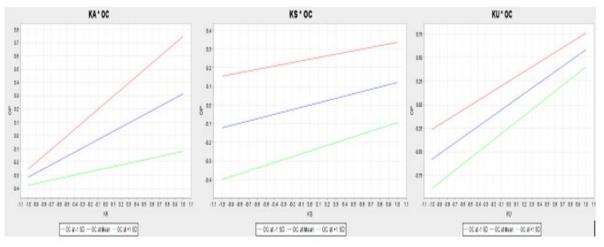


Figure 2: Moderator Slope Analysis

The x-axis signifies the exogenous variable, and the y-axis represents the OP endogenous variable. The red line indicates the effect of OC at mean, the blue bar at -1 standard deviation (SD), and the green line at +1 SD. Regarding KA, we note a significant decrease in the influence of KA on OP with lower levels of OC (blue line). This is reflected in the interaction term of -0.186 and directly correlates with H5. We note a medium effect (0.019) of OC on the KA/OP relationship.

Regarding KS, we note no apparent interaction. It directly correlates with H6. Specific to moderator analysis, effect sizes (f2) of 0.005, 0.01, and 0.25 are the criteria for a small, medium, or significant effect, respectively (Hair et al., 2017; Hair et al., 2019). Consequently, we note a somewhat significant effect (0.019) of OC on the KA/OP relationship. Regarding KU, we observe a substantial decrease in the influence of KU on OP. This is reflected in the interaction term of 0.066, and it directly correlates with H4. We note a minimal effect (0.003) of OC on the KU/OP relationship.

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Discussion

This study aimed to investigate the impacts of knowledge acquisition, sharing, and utilization on organizational performance and explore the moderating effect of corporate culture in the context of higher education institutions (HEIs). The hypothesized relationships were tested using PLS-SEM. The overall result confirmed the positive relationship between components of knowledge management processes and organizational performance, most notably knowledge acquisition (H1) and knowledge utilization (H3) had a positive impact on the performance of HEIs. The results of this study are consistent with previous studies (Jyoti & Rani, 2017; Hussinki et al., 2017, Ahmad et al. (2015)), mentioning that organizations that promote their employees generate, share, use and apply new knowledge perform better. This result indicates that knowledge acquisition and utilization matters for higher education institutes that always endeavor to be equipped with the latest and updated inside and transfer them to their students.

Hypothesis H2 examined the impacts of knowledge sharing on the performance of HEI. The results reveal that H2 is not supported. The findings suggest that knowledge-sharing activities do not have any effect on organizational performance. This study corroborates the findings of the Muqadas'study, whose study highlighted the challenges of knowledge sharing in the educational sector and identified the factors that facilitate knowledge sharing (KS), which would positively impact organizational performance. Previous studies suggest that KS can promote positive organizational outcomes, such as creativity; technological innovation, managerial effectiveness; organizational success, performance, learning, and improved problem solving (Chiu & Chen, 2016, 2016; Muqadas et al., 2017).

H4, H5, H6 examined the moderating effect of organizational culture on the relationship between knowledge utilization, acquisition, and sharing, respectively, and educational organizations' performance. The findings reveal that H4, H5, H6 were not supported. In addition, the moderator slope analysis shows that organizational culture significantly decreases the positive impact of knowledge acquisition on the performance of HEIs. Similarly, corporate culture reduces the positive effect of knowledge utilization on the performance of HEIs.

Conclusion

This study was conducted to investigate the impacts of three knowledge management processes, including knowledge acquisition, sharing, and utilization, on educational organizations' performance, in addition to the moderating effect of organizational culture in the context of higher education institutions (HEIs). Using a quantitative survey method, the results demonstrate that knowledge acquisition and knowledge utilization positively impact the performance of higher education institutions in the USA. The results also indicate that organizational culture negatively moderates the relationship between knowledge acquisition and organizational performance. Educational institutions Administrators and Leaders can use these results to consult with investors about implementing KM projects. This study also contributes to practitioners, as it provides organizations with new insights and findings that HEIs administrators or managers from other industries can convert into their own companies.

This study has several limitations which may open doors for future studies. First, the study targeted faculty members only from the public and private universities. Further research may also include other employees of higher education institutions such as staff and administration. Second, the sample size of 70 respondents is relatively small. Third, the study was conducted on colleges and universities exclusively in the USA. A study with larger sample size and expanded to other developed countries may lead to a more generalized result. Last but not least, opportunities for more research exist to explore a moderator analysis based on respondent demographics such as position.

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