“The intervening role of ambidexterity in the knowledge management project success connection”

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Abstract

Enhanced positive outcomes and benefits require project management to be integrated with knowledge management (KM) to induce ambidexterity and project success. To offer an empirical insight into this issue and advance the field of knowledge further, this research studies the mediating role of ambidexterity within the KM project success connection. The data collected from a sample of 350 senior people who have familiarity with relevant capital projects in the manufacturing companies in Jordan were analyzed using the algorithm of partial least squares (PLS) and bootstrapping techniques. The findings of the study show that KM is an integral aspect of project success, and it has a significant positive effect on project success, but KM, which does not induce ambidexterity, could not significantly enhance project success. KM can induce and stimulate enhanced project performance and benefits only when it induces ambidexterity. This implies that project success requires KM, given that KM allows organizations to possess exploitative and explorative capabilities simultaneously to tackle issues arising from the external environment. That this study covers only the manufacturing sector in Jordan, the research model can be replicated in other contexts to solidify the findings of the current study.

Keywords

ambidexterity, knowledge management, project success, manufacturing sector in Jordan

INTRODUCTION

Technological advancement has become an enormous transformative global force in the present world, with broad effects on individuals, businesses, and economies by reshaping trade and industry across all sectors and transforming the way businesses operate. Also, there are strong competitions, swift innovation, and short product life cycles. In the bid to weather these challenges, and at the same time, enhance operational efficiency and effectiveness and become cost-effective and schedule-efficient firms, organizations would need to devise new processes. The effective process is knowledge management (KM), given that organizational knowledge management has become indispensable, and the speed at which knowledge transfer is accomplished within the organization could impact the competitive advantage and performance of the organization (Szulanski, 1996). In project management, KM is a strategically important issue (Yang, Chen, & Wang, 2012).

KM has been recognized as the most significant change agent and the source of organizational competitive advantage (Nasiruzzaman, Qudaih, & Dahlan, 2013). KM involves knowledge acquisition, documentation, transfer, creation, and knowledge application (Yahya & Goh, 2002). It has been held that project success cum KM is crucial to enhancing organizational competitive advantage (Nasiruzzaman, Qudaih, & Dahlan, 2013). KM is a new development mechanism in the
new and current era of the knowledge economy. Most corporate organizations are now project-based, and it can be concluded that all operations in the present business environments are being run through the execution of projects. However, Todorović, Petrović, Mihić, Obradović, and Bushuyev (2015) opine that one of the key problems of KM in any project-based organization is the lack and inadequate project results analysis, as well as the absence of accurate documentation on the outcomes from past projects.

In the present, organizations have been focusing on project success and achievement of project objectives by adopting managerial processes that would afford the managers a good opportunity to succeed in achieving their goals (Nasiruzzaman, Qudaih, & Dahlan, 2013). The managerial process that could be adopted is KM, given that KM factors have been identified to have had a significant influence on project success (Nasiruzzaman, Qudaih, & Dahlan, 2013). KM plays a big role in any successful project (Nasiruzzaman, Qudaih, & Dahlan, 2013). Hanisch, Lindner, Mueller, and Wald (2009), Ajmal, Sandhu, and Jabeen (2013), and Yun, Shin, Kim, and Lee (2011) suggested that information about a project can be created by evaluating and reviewing project outcomes, emphasizing the necessity to gather information on project quality and progress with the need to conduct lesson learned reports to create a knowledge-based database to improve the performance of a future project.

The possession of dynamic capabilities is related to ambidexterity. This is because ambidextrous organizations can handle the environmental challenges, meet today’s demands effectively, and be capable of being adaptive to handle the changing market conditions (Zhang, Wei, & Constance, 2019; Lis, Józefowics, Tomanek, & Gulak-Lipka, 2018; Tushman & O’Reilly, 1996).

Literature has identified the relationship between ambidexterity and KM, and between ambidexterity and project success, but to attain a deep perception and advance the knowledge field further, this study examines the mediating role of ambidexterity in the nexus of the KM project success, aiming to build up an understanding about accomplishing ambidexterity in the project-based environment. According to Todorović, Petrović, Mihić, Obradović, and Bushuyev (2015), KM in the project environment has not been adequately investigated in project management research field, and not many researches have been done regarding the KM project success nexus, indicating that the understanding concerning the role of KM on the performance and success of projects need to be increased (Yang, Chen, & Wang, 2012). The available studies on the impacts of KM fall short of explaining its connection with ambidexterity.

Given the above explication, this study investigates the effect of KM on project success and ambidexterity’s mediating role in KM’s relationship with project success and performance in Jordan’s manufacturing sector. As projects are being used widely in the Jordanian manufacturing companies, it is thus apposite to assert that the manufacturing industry in Jordan is project-based. Therefore, it is crucial to identify factors that contribute to project success in the industry. Besides, it is worthwhile to investigate the Jordanian manufacturing companies because it is the second biggest industrial sector in Jordan after the services sector, and it contributes 18.17% to the GDP in 2016 (GlobalEDGE, 2018). This study’s remainder involves hypotheses development, methodology, result, discussion of findings, and conclusion.

1. LITERATURE REVIEW AND HYPOTHESES

Project success refers to the project completed within time, cost, and quality (Prabhakar, 2008). According to Turner (2009), however, a project may be completed on time and cost, but it may be considered a failure a few years later. Therefore, project success has attracted various connotations. In Kerzner’s (2011) arguments, it is difficult to predict whether a project is successful or not. Project success, as posited by Turner (2009), should be characterized with seven requirements: the project should increase the shareholder price that belongs to the parent organization; the project should yield a profit; the project should yield a specified improvement in efficiency; the newest advantage should work as expected; the newest advantage should yield the
item or provide something people would want to buy; the latest advantage should also be easy to operate; the project should also be performed timely, on a budget basis, and with the value specified; the project workers should have sufficient expertise, and the project should meet their expected needs; the companies should benefit monetarily. Overall, the success of a project is based on fundamental project factors, cost (budget), time (schedule), performance (quality) of the completed result with predefined impacts and benefits.

Moreover, many studies (e.g., Turner, Keegan, & Crawford, 2004) have indicated that getting knowledge is critical to project success, and project success is contingent on both project learning and project performance (Arthur, DeFillippi, & Jones, 2001). Prior research (Yang, Chen, & Wang, 2012) also acknowledged KM to be playing a very important role in the performance of projects. Also, KM has been connected with crucial factors of performance outcomes (Robinson, Carrillo, Anumba, & Al-Ghassani, 2005; Liu, Chen, & Tsai, 2005). The organizational efforts to enhance knowledge generation and utilization represent what is called KM (Fedor, Ghosh, Caldwell, Maurer, & Singhal, 2003). There have been some research efforts geared towards the demystification of KM from the organizational perspectives, but the success of such efforts would consequently hinge on other research efforts expanding the understanding of KM impacts in the project management research field.

The extant literature (Yang, Chen, & Wang, 2012; Liu, Chen, & Tsai, 2005) has identified KM as a significant predictor of project success. According to Yang, Chen, and Wang (2012), KM has been positively associated with project success, and that project outcomes are more likely to be achieved with some higher levels of KM. Briefly, the prior literature has shown that KM plays a major role and delivers benefits that are very significant to organizational projects’ success.

Leveraging the results of many studies on KM’s benefits is based on the notion that the skilled and knowledgeable workforces are the most valuable resources of an organization. In managing knowledge, firms use little formal managerial procedures (Styhre & Gluch, 2010). Therefore, new and innovative knowledge tools are indispensable and perilous to mitigate many unfavorable effects of power associated with bureaucratic knowledge practices in organizations (Sage, Dainty, & Brookes, 2010). Besides, knowledge is a crucial organizational resource that can enhance the competitive advantage of an organization.

Knowledge is concerned about knowing ‘what’, ‘how’ and ‘why’, including descriptions, information, facts, evidence, or skills based on education and/or experience. KM also comprises “knowledge identification, knowledge generation, knowledge storing, knowledge dissemination, knowledge applying, and knowledge evaluation” (Al-Hawary & Alwan, 2016). Knowledge could be explicit (i.e., the formal knowledge, which could be captured, stored, and distributed) or tacit (i.e., personal insights, feelings, and perceptions) (Santo, 2005). Knowledge is created through the interaction between explicit and tacit knowledge.

KM, which refers to knowledge acquisition, documentation, transfer, creation, and knowledge application (Yahya & Goh, 2002), has been recognized as the main mechanism for change in this new and recent era of the knowledge economy (Al-Zayyat, Al-Khaldi, Tadros, & Al-Edwan, 2010). KM plays a big role in any successful project, and any successful project would have objectives that would focus on knowledge as an asset. This includes knowledge creation, knowledge access improvement, knowledge environment enhancement, and KM.

The literature review has also identified KM as a significant determinant of project success. KM is positively associated with project success, and that project outcomes are achievable using higher levels of KM (Yang, Chen, & Wang, 2012). Nasiruzzaman, Qudaih, and Dahlan (2013) suggest that KM factors can significantly influence project success. According to Cleland (1994), successful projects are the cornerstone to implement the successful changes in an organization, which, in the long run, facilitates the accomplishment of organizational strategic objectives (Nasiruzzaman, Qudaih, & Dahlan, 2013).

Summing up the inferences from the extant literature (Nasiruzzaman, Qudaih, & Dahlan, 2013; Yang, Chen, & Wang, 2012), knowledge-sharing and successful knowledge dissemination have
been regarding as the key ingredients for project success. Moreover, as indicated earlier in this study, many studies have signified that KM is a positive driver of project success. However, the rigidities of project management, which could impede the flexibility required for effective project management in the present-day dynamic business and operational environment, organizations are likely to face complications in handling the rapidly changing environments (Candi, Van den Ende, & Gemser, 2013; Lenfle & Loch, 2010). Ambidextrous capabilities are a prerequisite for effective organizational handling of dynamic environments (Tamayo-Torres, Roehrich, & Lewis, 2017; Güttel & Konlechner, 2007).

Organizational ambidexterity is an organization's willingness to navigate the market and surrounding environment simultaneously (Petro, 2017) and reallocate resources and competencies to address new opportunities and threats (O'Reilly & Tushman, 2011). In addition to accumulating and utilizing its knowledge (March, 1991), it will enhance superior performance and sustainability (Kim, Lim, & Yoo, 2019). Ambidexterity helps to gain the simultaneous capacity to effectively exploiting the existing capabilities and exploring new opportunities (Raisch, Birkinshaw, Probst, & Tushman, 2009), attains alignment in its present processes while familiarizing effectively with environmental difficulties (Gibson & Birkinshaw, 2004). Managers try to solve the current problems while at the same time having the ability to face the future challenges and shifts (Gibson & Birkinshaw, 2004). Organizational ambidexterity plays a role in enhancing an organization's competitiveness, high-level performance, organizational success, and survival (Raisch & Birkinshaw, 2008). Besides, it is indicated in March’s (1991) study, which is among the earlier researches on organizational ambidexterity, that organizations should possess simultaneous exploitation and exploration capabilities to address problems emerging from the external environment. KM in project environment has not been adequately investigated in project management research field, and not many studies have been done regarding the KM project success nexus, indicating that the understanding of the role of KM in the performance and success of projects need to be increased (Yang, Chen, & Wang, 2012). The available studies on the impacts of KM fall short of explaining its connection with ambidexterity.

Owing to the above discussion and the quest to achieve a deep insight and advance the field of knowledge further, this research studies the mediating role of ambidexterity in KM project success nexus. Therefore, the hypotheses of this study are as follows:

H1: KM has a positive effect on project success.

H2: Organizational ambidexterity mediates the relationship between KM and project success.

2. RESEARCH MODEL

This study reviewed the appropriate and related literature to develop the hypotheses and the corresponding model and framework for this research. As depicted in Figure 1, which represents this study’s research framework, three variables (KM, ambidexterity, and project benefits) had been investigated in the current study. This study enhances the current literature by offering important results on identifying the intervening role of ambidexterity on the relationship between KM and project success.

Source: Authors.
3. RESEARCH METHODS

This research employs a cross-sectional research design in that the data were collected once for the study and later analyzed and interpreted statistically to generate the conclusion or make inferences concerning the study population. A cross-sectional research design is chosen because it is cost-effective, time- and money-saving (Sekaran & Bougie, 2010; Wilson, 2010). Through SmartPLS 2.0 M3 software, the data from the study, which were project-specific and thus meant that the data were representative of the KM levels used in projects, were analyzed as this would ensure that measurement errors are minimized and properly ensure the highest precision (Hair, Black, Babin, & Anderson, 2010). Besides, the analysis technique included a two-step approach in the current study: examination (the measurement model) and structural model as proposed by Anderson and Gerbing (1988), Fornell and Yi (1992), and Hair, Black, Babin, and Anderson (2014), as this will ensure reliable and scientifically valid results.

3.1. Population and sampling

Furthermore, the Jordanian manufacturing industry is the population in this study. The selected manufacturing companies cut across many industries, including fabricated metal products, electronics, paper-based industry, textile, and garment. The respondents were senior individuals who were familiar with the development of capital projects and could answer the survey questions. The sample size of the study is 400, and respondents are chosen using a systematic technique.

Thus, the respondents were given 400 questionnaires, but a total of 350 questionnaires were retrieved, and all of those questionnaires were valid for analysis, representing a response rate of 88 percent. According to Sekaran (2003), this response rate to the questionnaire is considered acceptable and adequate. Demographically, 135, representing 39% of the respondents of this study, are executive directors in various firms, while 215 (61%) are architects. Regarding the years of experience, 188 respondents representing 54% have between 6 and 15 years of experience, while 95 respondents representing 27% have between 16 and 25 years of experience. 67 respondents representing 19% have 26 or above years of experience. Additionally, the respondents have been engaged in numerous projects. 123 (35%) respondents have been engaged in more than ten projects, but most respondents have been involved in more than 15 projects.

3.2. Measurements

The questionnaire is the tool through which the data were collected, and this is considered suitable because it is a common tool for data collection (Keeter, 2005). The measurement used for KM was adapted from Huang and Li (2009) and Chen and Huang (2009), while the measures of project success were adapted from Pinto and Slevin (1988), and Gelbard and Carmeli (2009). Project success was measured with both project benefits and project performance. Each item was evaluated on a seven-point scale ranging from 1 (strongly disagree) to 7 (strongly agree). Ambidexterity, which is considered a multidimensional construct involving the multiplicative interaction of exploration and exploitation (Revilla, Prietto & Rodríguez, 2011), was measured with eight items: four items concern exploration and other four items concern exploitation. The measurement was adapted from Katila and Ahuja (2002) and He and Wong (2004).

4. RESULTS

Hypotheses’ testing was done using two-step approaches of measurement and structural model. As specified by Variance-Based Structural Equation Model analysis, evaluation of the measurement model must be performed to indorse internal consistency, reliability, discriminating validity, and convergent validity (Hair, Black, Babin, & Anderson, 2014).

According to the results in Table 1, Table 2, and Figure 2, each element contained in the constructs illustrates a higher value for their respective constructs, which enhances significant and acceptable factor loadings. This affirms the convergent and content validity of each of the constructs. All the items showed satisfactory factor loadings that ranged between 0.632 and 0.897, and composite reliability scores ranged between 0.866 and 0.905, those higher values indicated higher levels of internal consistency reliability (Hair, Hult, Ringle, &
Sarstedtl, 2016). Reflective scales have an Average Variance Extracted (AVE) values that ranged between 0.511 and 0.668, which exceeds the minimum requirements of AVE, which should be more than 0.50 (Johari, Yahya, & Omar, 2011, Hair, Hult, Ringle, & Sarstedtl, 2016). Also, the discriminant validity was considered to be satisfactory, because the Heterotrait-Monotrait Ratio (HTMT) criterion for two combinations of constructs was lower than the threshold level of 0.90, as suggested by Henseler, Ringle, and Sarstedt (2015), Hair, Hult, Ringle, and Sarstedtl (2016). Conclusively, the content, convergent, and discriminant validity of the research constructs have been confirmed. So, construct validity and reliability have been established in this study.

**Table 1. Internal consistency and convergent validity**

<table>
<thead>
<tr>
<th>Main construct</th>
<th>Indicators</th>
<th>Loadings</th>
<th>CA</th>
<th>CR</th>
<th>AVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambidexterity related factor</td>
<td>AM1</td>
<td>0.796</td>
<td>0.824</td>
<td>0.875</td>
<td>0.511</td>
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<tr>
<td></td>
<td>AM2</td>
<td>0.812</td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>AM3</td>
<td>0.793</td>
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<td></td>
<td>AM4</td>
<td>0.680</td>
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<tr>
<td></td>
<td>AM5</td>
<td>0.792</td>
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<tr>
<td></td>
<td>AM6</td>
<td>0.685</td>
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<tr>
<td></td>
<td>AM7</td>
<td>0.773</td>
<td></td>
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<tr>
<td></td>
<td>AM8</td>
<td>0.799</td>
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<tr>
<td>Knowledge management related factor</td>
<td>KMSA1</td>
<td>0.632</td>
<td>0.819</td>
<td>0.871</td>
<td>0.578</td>
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<td></td>
<td>KMSA2</td>
<td>0.731</td>
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<td></td>
<td>KMSA3</td>
<td>0.760</td>
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<tr>
<td></td>
<td>KMSA4</td>
<td>0.820</td>
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<td></td>
<td>KMSA5</td>
<td>0.841</td>
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<tr>
<td>Project success (project benefits and performance)</td>
<td>PB1</td>
<td>0.726</td>
<td>0.874</td>
<td>0.905</td>
<td>0.614</td>
</tr>
<tr>
<td>related factor</td>
<td>PB2</td>
<td>0.835</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>PB3</td>
<td>0.772</td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>PB4</td>
<td>0.761</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>PB5</td>
<td>0.779</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>PB6</td>
<td>0.822</td>
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</table>

Note: CA: Cronbach’s Alpha; CR: Composite Reliability; AVE: Average Variance Extracted.
From Figure 2, the value for $R^2$ was 0.365, which indicated that, in the model, latent variables (exogenous), which are KM and ambidexterity, explain 37% of the variance of the endogenous latent variable (i.e., project success), which is statistically moderate and also acceptable (Cohen, 1988).

The data in Figure 3 and Table 3 show the results of the structural equation model and testing the mediation effect. The direct path concerning relationship between KM and project success (KM $\rightarrow$ PS), KM and ambidexterity (KM $\rightarrow$ AMB), and ambidexterity and project success (AMB $\rightarrow$ PS) are all significant and positive ($\beta = 0.171$, $t = 2.536$, $p < 0.005$; $\beta = 0.556$, $t = 11.769$, $p < 0.001$; $\beta = 0.615$, $t = 11.692$, $p < 0.001$). As shown in the stated results, Hypothesis 1 that proposed that “KM has a positive effect on project success” is supported. The indirect effect (KM $\rightarrow$ AMB $\rightarrow$ PS ($\beta = 0.342$, $t = 10.157$, $p < 0.01$) is also significant and positive, and the obtained 95% Confidence Interval (CI) does not consist of zero. Therefore, it may be stated that ambidexterity partly mediates the relationship between KM and project success. Hence, Hypothesis 2 is also accepted and supported. In the present mediation model, ambidexterity denotes an appropriate mechanism for explaining the relationship between KM and project success. Hence, what necessitates the positive indirect role through the (ambidexterity) as a mediator variable exposes the ‘true’ relationship that exists between KM and project success (Hair, Black, Babin, & Anderson, 2014).

Furthermore, the result from the structural model analysis established the effect size ($f^2$) value of 0.505 and 0.281, respectively, defined that the latent exogenous constructs have a significant influence on the latent endogenous construct. It suggests that project performance is explained by KM and ambidexterity with the effect size value (Hussain, Fangwei, Siddiqi, Ali, & Shabbir, 2018; Hair, Black, Babin, & Anderson, 2014; Cohen, 1988). This indicates that KM has a large effect on project success, while ambidexterity has a moderate effect on project success. Besides, the Cross Validated Redundancy (CVR) value is 0.102. The research model has an acceptable predictive relevance, as indicated by Chin (2010), Aktar, D’Ambra, and Ray (2011).
The results of the research show that KM is an integral aspect of project success. It has a significant positive effect on project success, highlighting that KM is a significant factor that influences project success in terms of project performance and benefits concerning meeting cost, schedule, safety and quality, and benefits to customers and businesses. Furthermore, the results showed that ambidexterity mediates the relationship between knowledge management and project success. Subsequently, the entire hypothesis in this research was supported.

5. DISCUSSION

The findings of this research are consistent with some of the extant literature. According to Cleland (1994), KM is crucial to the accomplishment of project success. Successful projects are the building blocks to implement the changes in an organization, which, in the long term, facilitates the accomplishment of organizational strategic objectives (Nasiruzzaman, Qudaih, & Dahlan, 2013). The findings of this study also suggest that KM can help transfer new knowledge into innovation. Likewise, it furthermore helps improve project success and performance by gaining greater understanding and use of innovation knowledge.

KM can produce intangible resources in a more innovative method and is a vital driver for a successful project outcome, given the vital position of communication and knowledge sharing in business operations (Yang, Chen, & Wang, 2012). Kotlarsky and Oshri (2005) found that knowledge sharing and communication have a positive relationship with successful collaboration in project teams by two indicators, product success, and personal satisfaction, confirming that knowledge integration and sharing are more likely to result in making the project more effective. Further, the findings of this research show that the benefits of the project can be achieved by enhancing knowledge sharing and application and knowledge storage and inclusion.

Leveraging the findings of this study, it can be asserted that KM, involving knowledge sharing and application and knowledge storage and integration, is a catalyst for an effective and successful project. Change is constant in the current dynamic environment, and program managers should embrace and exploit the changes. Thus, it is essential to ensure integrating knowledge bases to accomplish projects. Knowledge integration is subject to the people's capability to establish a relationship with each other, endure sharing and realize findings and knowledge assets created in the project environment, and adapt them to the swiftness of other sections of the project. Further, in the project where KM is well-entrenched, people would effectively incorporate their own held knowledge assets, which will guarantee project success.

Furthermore, the results of this study also highlight the importance of organizational ambidexterity. Based on the results, it could be inferred that KM, which does not induce ambidexterity, could not significantly enhance project success. KM can induce and stimulate enhanced project performance and benefits only when it induces ambidexterity. This is because ambidexterity helps an organization to test its market and external environment simultaneously, further leverage its own knowledge base and assets to enhance higher performance and achieve sustainable competitive advantages (Kim, Lim, & Yoo, 2019; Petro, 2017).

As mentioned previously, ambidexterity helps to achieve the simultaneous capacity to manage current business challenges efficiently while con-
CONCLUSION

As organizations are becoming more project-oriented, and management-by-projects are becoming part of the organizational strategies, organizations want effective good, and service delivery cum enhanced positive outcomes and benefits. However, this would require that project management be integrated with KM, which will induce ambidexterity and project success in the long run. This study has implications for the stakeholders in that the advanced technology and environmental changes precipitate the existing challenges and thus accurate information must be easily located, trusted by people and used to solve a particular problem, to respond to a threat or issue, to satisfy the fear of a stakeholder, and to enhance the process of product development or provision of the service needed. For proper learning, there should be an effective knowledge sharing and knowledge transfer. Also, organizations need to solve a particular problem, respond to a risk or challenge, satisfy the fear of a stakeholder, and advance product development or the delivery of the necessary service.

Overall, this study has provided more insights and advances the body of knowledge further in project management research. However, the findings of the study should be cautiously generalized, given that it covers only the manufacturing sector in Jordan. The model of the research can be replicated in other contexts to solidify the findings of the current study.

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