Organizational Readiness and its Contributing Factors to Adopt KM Processes: A Conceptual Model

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Abstract

The main purpose of this paper is to propose a conceptual model that can be used to assess the organizational readiness and its contributing factors for KM process adoption. The authors propose that the organizational readiness should be assessed considering both organizational and individual factors. The model has been developed by integrating KM infrastructure and Unified Theory of Acceptance and Use of Technology (UTAUT). This model will enrich the KM literature, especially on KM readiness, while being the basis for other researchers and authors to develop further.

Keywords: KM processes, Organizational readiness, UTAUT, KM infrastructure.

1. Introduction

Knowledge has been identified as one of the main resources in the contemporary world (Nonaka & Takeuchi, 1995). Due to this recognition, many organizations attempt to adopt knowledge management (KM) processes to manage their knowledge properly. The processes of knowledge creation, storage, sharing, application, and protection have been identified as KM processes in the KM literature. The term KM and KM processes have been used inter-changeably by most authors, who perceived KM as a process. Today, the adoption of KM processes is widespread among business organizations all over the world. Because of these reasons, KM process adoption has gained much attention from academician, researches, and practitioners. However, little attention has been given to the assessment of organizational readiness to adopt KM processes. In this context, the purpose of this paper is to propose a conceptual model that can be used to assess the organizational readiness for KM process adoption, by integrating KM infrastructure and Unified Theory of Acceptance and Use of Technology (UTAUT).

Following background section reviews the literature on organizational readiness for KM process adoption, KM infrastructures, and employee attitude towards KM processes adoption. The third section of this paper integrates the KM infrastructure and the UTAUT. Finally, point out the limitations of this model and the direction for future works.

2. Background

KM process adoption requires changes in the organizational setup and members' behavior. Siemieniuch and Sinclair (2004) point out that organizations and individuals need to exhibit certain characteristics in order to adopt KM processes. They have quoted the saying "if you would plant roses in the desert, first make sure the ground is wet". It is understood that introducing any change in any organization is difficult and, therefore, leaders are encouraged to assess the readiness of their organization to adopt those changes in advance. Organizational leaders, who intent to adopt KM process in their organizations, ask themselves 'Where to start?' and 'Is my organization ready?'. Holt et al., (2007) stress that considering the magnitude of organizational commitment and resources often required to initiate adoption of KM processes, more attention should be given on KM readiness studies.

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However, extensive review of KM literature shows that the literature on organizational readiness for KM process adoption is limited, and narrowly focused. The concept has not been fully explored yet. Still no one has proposed a conceptual model or framework or an instrument that has been recognized by the research community in the field of KM. The following section reviews the existing literature on readiness for KM process adoption.

2.1. Literature review on readiness for KM process adoption

Holt et al., (2007) consider the receptive attitudes of organizational members as the readiness for KM process adoption. They have developed an instrument to assess the readiness for KM, which mostly concentrate on knowledge sharing process, and on human factors. Their readiness instrument does not measure the organizational physical and logical infrastructures, such as IT and organizational structure, which are considered influencing factors for KM process adoption. In addition, they have not proposed any conceptual model to identify the variables, and the relationship among the variables. Similarly, Taylor & white (2004) has explored six antecedents of knowledge sharing, based on observations, document review, and interview in the public health care sector in UK. They have focused only on knowledge sharing, one of the KM processes, rather than considering all KM processes. The findings have to be validated using quantitative research approaches. Meantime, Siemieniuch and Sinclair (2004), have proposed 14 steps to make an organization ready for KM. The proposal is still at conceptual level and not yet empirically validated. Likewise, Keith et al., (2006) have stated that measuring KM readiness, based on KM enablers introduced by Lee & Choi (2003), is much suitable for a traditional organization. This also has to be empirically validated. In addition, Wei et al., (2006) have investigated the readiness of Malaysian telecommunication industry to adopt KM by investigating the perceived usefulness and actual implementation of some variables such as, business strategy, organizational structure, knowledge team, knowledge audit, and knowledge map. Though they have used survey methods, they do not have focused comprehensively on the matter and not have used any research framework to identify the dependent and independent variables and relationship between them.

The above review of the literature confirms that the concept KM readiness has to be explored from different perspectives using different research approaches. Most of the available literatures are at conceptual level which has to be empirically

validated. Few studies on readiness for KM adoption have taken only the knowledge sharing process rather than taking whole KM processes into consideration. In addition, the studies have considered either human or organizational factors in isolation, which create a need of an approach combining both of these factors together. Therefore, the present authors propose that the readiness for KM process adoption should be assessed considering both organizational individual factors. In this perspective, organizational readiness to adopt KM process can be explained as, the availability of physical and logical infrastructures in the organization (organizational factors), and the willingness of the organizational members (individual factors) to adopt KM processes. The same view is supported in the literature as well. Siemieniuch & Sinclair (2004) believe organizations can not expect to implement KM practices successfully to achieve all their goals in an environment, which is not conducive to their execution. At the same time, Holt et al., (2007) insist that a critical question for organizations that are thinking of attempting to extract the value implicit from KM is to what degree are they ready to have KM successfully adopted by people in the organization. The organizational factors, which are considered as the pre conditions for KM process adoption, are called KM infrastructures in KM literature. The factors that influence on the willingness or positive attitudes of organizational members towards KM process are considered as the individual factors. In this background, the present authors propose a conceptual model combining both the organizational and individual factors. The following sections describe the relevance of KM process adoption and the KM infrastructure, and employee's attitudes.

2.2. KM infrastructure and readiness for KM adoption

To adopt KM processes in an organization, specified structural, physical, and logical changes are required in their conduct of operation. These preconditions, on which KM resides, have been defined as KM infrastructures in the KM literature (Becerra-Fernandez et al., 2004, Gold et al., 2001). KM infrastructure includes (1) KM supportive organizational culture. (2) KM supportive organizational structure, and (3) KM supportive IT infrastructure. In addition, several authors have stated these factors as the main contributing factors for adoption of KM processes, though they have termed them differently. For example, KM enablers (Lee & Choi, 2003) KM critical success factors (Al-Alawi et al., 2007; Hung et al., 2005; Wong, 2005),

influencing factors on KM (Holsapple & Joshi, 2000), and KM initiatives (Kulkarni *et al.*, 2007).

As an organization means a group of people with a common goal operating in a structured context, considering only the organizational factors is not enough in the assessment of organizational readiness for KM process adoption. Therefore, the perception and attitudes of the organizational members toward any change or activity have a major impact. Hence, the readiness of organizational members for KM process adoption also should be assessed, as the concept of KM is considered as not only merely as technical concept, rather it is considered as a fusion of socio technical concept (Jennex, & Zynger, 2007). It is worthwhile to consider at this point that, the economical term 'demand' which means the willingness and the ability to purchase a good or service. Merely a need or want (willingness) of people does not consider as readiness to create a demand. To consider as demand the willingness should be coupled with the ability (purchasing power). Similarly, the term 'workforce' includes the people who possess the ability and the willingness to work. From these two examples, it can be understood that the readiness to do or execute anything, one should have the willingness and the resources (or the ability) to do or execute. In this perspective, the organizational readiness to adopt KM process can be explained that the availability of physical and logical infrastructures the organization in (KM the infrastructure), and willingness (positive attitudes) of the organizational members to adopt KM

processes. Subsequent section explores the ways of assessing organizational members' attitudes.

2.3. Employee attitude and UTAUT

There are many theories and models in information systems (IS) and change management literature, which can be used as a basis to measure the attitudes and behaviors of employees. For instant, the Theory of Reasoned Action (TRA), the Technology Acceptance Model (TAM), the Theory of Planned Behavior (TPB), and so on. Meantime, Venkatesh et al. (2003) have proposed a Unified model, called the Unified Theory of Acceptance and Use of Technology (UTAUT) (see figure 1) by integrating eight models and theories of individual acceptance, such as TRA, TAM, TPB, Motivational Model (MM), Combined TAM and TPB (C-TAM-TPB), Model of PC Utilization, Innovation Diffusion Theory (IDT) and Social Cognitive Theory (SCT). Though these theories are commonly been used to assess the individual acceptance technologies/systems, some models have been used in other context as well. For example, TAM has been tested and validated from different technologies' perspectives, including Knowledge Management Systems (KMS) (Money & Turner, 2004). In addition, Wu & Li (2007) has used TAM to explain employees' attitudes toward and behavior intentions concerning the implementation of KM program. Moreover, intensive review of literature shows that the basic concept of TAM has been used in some other field and context as well to measure the readiness of adoption.

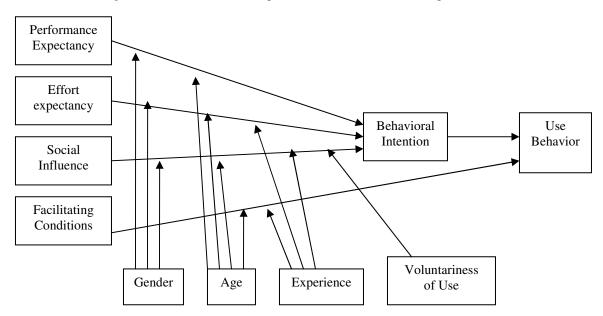


Figure 1. Unified Theory of Acceptance and Use of Technology (UTAUT) (Source Venkatesh et al., 2003)

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For instant, TAM being used in adoptability of ecommerce (Venkatesh *et al.*, 2003), acceptance of laptop program (Elwood *et al.*, 2006), and internet usage (Fusilier & Durlabhji, 2005). Meantime, the ease of use, one of the independent constructs of the TAM, has been cited as an important consideration for KM process adoption in the KM literature (Wong 2005; Loyarte & Rivera, 2007; Al-Alawi, *et al.*, 2007; Bozbura, 2007). In this backdrop, the integration of UTAUT with KM infrastructure is acceptable to assess the organizational readiness.

3. Integration of KM infrastructure and UTAUT

As previously discussed, one of the components of KM infrastructures is IT infra structure. IT and the Knowledge Management Systems (KMS) are much needed components for an effective KM process adoption. Indeed, technology adoption and KMS adoption are basically similar. Therefore, integrating these two concepts is logically acceptable. One of the main two independent constructs in the UTAUT model is 'performance expectancy', which has been defined as 'the degree to which and individual believes that using the system will help him or her to attain gains in job performance' (Venkatesh et al, 2003). In KM context, it can be redefined (modified) the same construct as 'Performance expectancy of adopting KM processes' that means "the degree to which the organizational members believe that adopting KM processes will help them to attain gains in job performance individually and collectively'.

According to Davis (1989), perceived usefulness, one of the root construct of performance expectancy, influenced (reinforced) by rewords and top management support (Grandon & Pearson, 2004). These two variables have been considered in the KM literature as KM supportive organizational culture. The other two variables of organizational culture, understand the value of KM and the alliance of KM strategy with the organizational strategy, should have positive relationship the performance with expectancy. Without understanding the value of KM, there is no possibility to perceive usefulness of adopting KM processes. At the same time, without an alliance with both KM and organizational strategy, organizations can not expect any improvement in their performances. In this background, it can be expected that the KM supportive organizational culture and IT infrastructure can influence on perceived usefulness.

The other main independent construct in the UTAUT model is 'Effort expectancy', which has been defined as 'degree of ease associated with the use of the system' (Venkatesh et al, 2003). In KM context, the construct can be redefined as 'Effort expectancy of adopting KM processes' that means 'The degree to which organizational members believe that adopting KM processes would be easy and comfortable'. The variables, such as user friendliness and easy to access, which are used in the UTAUT, could be used to measure the effort expectancy of KMS as well. In addition, though the technology is considered as one of the essential supporting factors for KM process adoption, if the logical structure of the organization does not support it, the organizational members will feel uneasiness to adopt KM processes. Therefore, the organizational structure should support flexibility in the conduct of operation (decentralization). At the same time, there should be some organizational members who are in charge for KM initiatives (KM oriented organizational positions). Furthermore, 'communities of practice' nowadays mostly depends on IT. Therefore, it can be expected that IT infrastructure and organizational structure can influence on effort expectancy of adopting KM processes.

Based on the above discussion, by integrating KM infrastructure and UTAUT, the basic research model has been proposed (see Figure 2). There are three independent constructs in the model; infrastructure, performance expectancy of adopting KM processes, and effort expectancy of adopting KM processes. KM infra structure (organizational factors) is considered as the pre condition for KM implementation, which has an indirect influence on adoption of KM processes. This construct was developed based on Grandon & Pearson's (2004) research model (based on TAM), in which they have considered availability of financial resources and technology resources as organizational readiness. Lehman et al, (2002) also has considered adequacy of resources as a construct to measure the readiness for Other two independent performance expectancy and effort expectancy are taken from UTAUT.

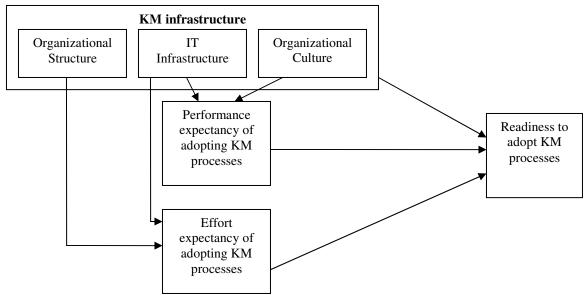


Figure 2. Integrated KM process adoption model.

In this integrated model, though effort expectancy is an independent construct, it is expected that it could be influenced by organizational structure and IT infrastructure. Similarly, performance expectancy is influenced by IT infrastructure and organizational culture. It is believed that readiness to adopt KM process will lead to KM process adoption, as the theory of planned behavior (TPB) establishes that perceptions influence intentions, which influence the actual behavior (Grandon & Pearson, 2004). Please see Table 1 for construct definitions, and Tables 2-7 for root construct, definitions, and scales.

4. Conclusion

The authors propose a conceptual model by integrating KM infrastructure and UTAUT to assess organizational readiness for KM process adoption. They believe that this model will assess both organizational and individual factors which determine the overall readiness of an organization for KM process adoption. Therefore, this model can be used as the basis for future studies in this area. Though the model appeared to be good enough to assess the readiness for KM process adoption, the constructs have to be theoretically well supported. Variables that represent the constructs should be identified. In addition, the model has to be tested empirically at different context by using different samples, and different research methodologies.

Table 1. Construct and definition

Readiness to adopt KM processes	Receptive attitudes of organizational members to adopt KM processes
Performance expectancy of adopting KM processes	The degree to which the organizational members believe that adopting KM processes will help them to attain gains in job performance individually and collectively.
Effort expectancy of adopting KM processes	The degree to which organizational members believe that adopting KM processes would be easy and comfortable.
Organizational Culture	The degree, to which an appropriate organizational culture that encourages people to adopt KM processes, exists in the organization.
Organizational Structure	The degree, to which an appropriate organizational culture that encourages people to adopt KM processes, exists in the organization.
IT Infrastructure	The degree, to which an IT infrastructure that support KM process adoption, exists in the organization.

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Table 2. Organizational Culture: Root constructs, definitions, and scales

Construct	Definition	Items
Collaborati	Degree of	1. Our
on	active support	organizational
(Lee &	and helps in	members are
Choi 2003)	organization	satisfied by the
Choi 2003)	organization	degree of
		collaboration.
		Collaboration.
		2. Our
		organizational
		members are
		supportive.
		3. Our
		organizational
		members are
		helpful.
		neipiui.
		4. There is a
		willingness to
		collaborate across
		organizational units
		within our
		organization.
		5. There is a
		willingness to accept
		responsibility for
		failure.
		rantic.
Trust	Degree of	Our company
(Lee &	reciprocal faith	members
Choi 2003)	in others'	
,	intentions,	1. are generally
	behavior, and	trustworthy.
	skills toward	
	organizational	2. have reciprocal
	goals	faith in other
	=	members' intentions
		and behaviors.
		3. have reciprocal
		faith in others'
		ability.
		4. have reciprocal
		faith in others'
		behaviors to work
		toward
		organizational goals.

	I	
		5. have reciprocal
		faith in others'
		decision toward
		organizational
		interests than
		individual interests.
		6. have relationships
		based on reciprocal
		faith.
Learning	Degree of	Our company
(Lee &	opportunity,	
Choi 2003)	variety,	1. provides various
	satisfaction,	formal training
	and	programs for
	encouragement	performance of
	for learning	duties.
	and	
	development	
	in	2. provides
	organization.	opportunities for
		informal individual
		development other
		than formal training
		such as work
		assignments and job
		rotations.
		rotations.
		3. encourage people
		to attend seminars,
		symposia, and so on.
		4 provide verieus
		4. provide various
		programs such as
		clubs and
		community
		gatherings.
		5. members are
		satisfied by the
		contents of job
		training or self-
		development
		programs.

Table 3. Organizational Structure: Root constructs, definitions, and scales

Construct	Definition	Items
Centralization	Degree of	Our company
(Lee & Choi	authority	members
2003)	and control	
	over	 can take action
	decisions	without a
		supervisor (R).

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		2. are encouraged to make their own decisions (R). 3. do not need to refer to someone else (R). 4. do not need to ask their supervisor before action (R). 5. can make decisions without approval (R).
Formalization (Lee & Choi 2003)	Degree of formal rules, procedures, and slandered policies	In our company 1. there are many activities that are not covered by some formal procedures (R). 2. contacts with our company are on a formal or planned basis. 3. rules and procedures are typically written. 4. members can ignore the rules and reach informal agreements to handle some situations (R). 5. members make their own rules on the job (R).

Table 4. IT infrastructure: Root constructs, definitions, and scales

Construct	Definition	Items
IT support	Degree of IT	Our company
(Lee &	support for	1. provides IT
Choi 2003)	collective work,	support for
	for	collaborative works
	communication,	regardless of time
	for searching	and place.
	and accessing,	

for simulation and prediction, and for systematic storing.	2. provides IT support for communication among organizational members.
	3. provides IT support for searching for and accessing necessary information.
	4. provides IT support for simulation and prediction.
	5. provides IT support for systematic storing.

Table 5. Performance Expectancy: Root constructs, definitions, and scales

Construct	Definition	Items
Perceived Usefulness (Davis 1989)	The degree to which a person believes that adopting KM processes would enhance his	1. KM process adoption would enable me to accomplish tasks more quickly. 2. KM process adoption would
	or her job performance.	improve my job performance.
		3. KM process adoption would increase my productivity.
		4. KM process adoption would enhance my effectiveness on the job.
		5. KM process adoption would make it easier to do my job.
		6. I would find KM process adoption useful in my job

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Job-fit	How the	1. KM process
(Thompson	adoption of	adoption will have
et al,	KM	no effect on the
1991)	processes	performance of my
	enhance an	job (R).
	individual's	3 ()
	job	2. KM process
	performance.	adoption can
	performance.	decrease the time
		needed for my
		important job
		_
		responsibilities.
		2 1/1/4
		3. KM process
		adoption can
		significantly increase
		the quality of output
		on my job.
		4. KM process
		adoption can
		increase the
		effectiveness of
		performing job tasks.
		performing job tusks.
	1	

Table 6. Effort Expectancy: Root constructs, definitions, and scales

Construct	Definition	Items
Perceived	The degree	1. Adopting KM
Ease of Use	to which a	processes would be
(Davis 1989)	person	easy for me.
	believes	
	that	2. Adopting KM
	Adopting	processes would be
	KM	clear and
	processes	understandable for
	would be	me.
	free of	
	effort.	3. I would find the
		adoption of KM
		processes would be
		flexible.
		4. It would be easy
		for me to become
		skillful by adopting
		KM processes.
Complexity	The degree	1. Adoption of KM
(Thompson	to which the	processes takes too
et al,	KM	much time from my
1991)	processes is	normal duties.
	perceived as	

relatively difficult to understand and adopt.	2. Adoption of KM processes is so complicated; it is difficult to understand what is going on.
	3. Adoption of KM processes involves too much time doing mechanical operations.
	4. It takes too long to learn how to adopt KM processes to make it worth the effort.

Table 7. Readiness to adopt KM processes, definitions, and scales

Construct	Definition	Items
Intention to	Receptive	1. Assuming I have
adopt KM	attitudes of	the option to adopt
process	organizational	KM processes, I
	members to	intend to adopt it.
	adopt KM	
	processes	2. Given that I have
		the option to adopt
		KM processes, I
		predict that I would
		adopt it.

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