Development of a Strategic Knowledge Management Model for Thai Universities

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Background of the research

Knowledge Management (KM) has been defined as the process by which an organization creates, captures, acquires, and uses knowledge to support and improve the performance of the organization

Background

The important of KM in Thai universities

The increase of external pressures such as: competition in higher education, university internationalization, university rankings, decreasing student population, demands for high quality graduates etc., have forced universities worldwide to seek better strategies for competitive advantages.

The requirement by the Office of Public Sector Development Commission of Thailand, has listed KM as a key indicator in measuring a university's performance (It states that the successful level of KM practice in a university is a primary factor in measuring the university's performance)

Background (continue)

Thai universities, including Khon Kaen University (KKU), use KM as a tool for improving university performances by focusing on general management works

However most Thai universities have not been able to successfully implemented KM due to a lack of good KM strategic planning

Background

In order to successfully implement the KM practice within an organization

it is essential that the KM organizational strategy is well defined

KM strategy is an operating framework or plan that describes how an organization will effectively operate KM.

Background

This study aimed at developing a KM strategic model for Thai university management by using KKU as a case study

Background of KKU.

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- One of the largest and best-known public universities in Thailand
- In response to the requirements of the Office of Public Sector Development Commission of Thailand, KKU has put KM strategies into its corporate strategic plan for the years 2006-2009

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Background

The most of the former KM strategy researches focused on the type of KM strategies which suitable for business organization

Researcher	Finding
Swan, Newell and Robertson,2000	Personalization strategy
Schulz and Jobe,2001	Hybrid or dynamic strategy
Choi and Lee, 2002, 2003	Hybrid or dynamic strategy
Keskin, 2005	Codification strategy
Wuand Lee, 2006	Hybrid or dynamic strategy

Background

Choi,& Lee (2002) studied KM strategy that alignment with KM process

- Many researches (For example Choi,& Lee, 2002; Choi, Poon,& Davis, 2008) suggested the study of KM strategy that alignment with KSFs
- Choi, Poon,& Davis (2008) suggested the essential to identify relationship among KM factors, KM processed and KM strategies for attaining high levels of organizational performance

Background (continue)

- The research approach is based on the components of KM strategic development synthesized from the written research of several well-known scholars
- Components which have been developed as objectives of this study are to:
- (1) Study the current situation and/or problems in the development of KM at KKU.
- Identify and analyze the KM processes and key (2) success factors of KM at KKU.
- (3) Develop and propose an appropriate KM strategic model for KKU that can also be applied to other universities in Thailand.

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Types of KM strategies

In addition, Choi and Lee (2003) divides KM strategies into three types

- 1. the system-oriented style places more emphasis on codifying and reusing knowledge
- 2. the human-oriented style is on acquiring and sharing tacit knowledge and interpersonal experience
- 3. the dynamic style emphasizes both explicit and tacit methods.

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To construct a good KM strategy

Organizations need to study

- KM constraints in organization
- KM process
- Key Success Factors (KSFs)

for helping develop a core area to process KM effectively

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Barriers of KM success

- · Lack of supportive organizational culture
- · Lack of budget

Martin, 2004)

- ICT
- Organizational administration (Organizational structure, Functional silos, Staff turnover, Individual vice team emphasis, Wrong personnel placed)
- Lack of top management commitment
- Staffs (Lack of ownership, Lack of perceives need, Resistance)
- KM process (Lack of linkage between KM activities and organizational performance, Standardized processes)
- Lack of effective measuring KM tool

(Vass, 1999, Keyser, 2004, Martin, 2004 and Stankosky, ed., 2005)

KM process

- 7 KM processes are used in this research
- 1. K. identification
- 2. K. creation or acquisition
- 3. K. capture/codification
- 4. K. organization
- 5. K. storage
- 6. K. distribution
- 7. K. application

(Demarest, 1997, Nonaka, 1994, Probst et al, 2001, Tyndale, 2002, Landaeta Feo, 2003 and Lawsen, 2003)





Target population

- 1. University top managers (4)
 - President
 - Vice President for Administration
 - Vice President for Human Resource Affairs
- Chief Knowledge Officer (CKO)
- 2. KM Committees (12)
- 3. Heads of Administrative/ Supporting Departments (29)
- 4. Heads of Administrative/ Supporting Units (154)
- 5. Experts (2)

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Research tools

- In-depth interview (structured-interview questions)
- Questionnaires (Rating scale, ranking)

Collect data from December 2007 to April 2008 (4.5 months)

Data analysis • Descriptive analysis • Statistic analysis (Frequency, percentage, mean and standard deviation) • Current oper • Problems of • The need of at KKU • Key success KM at KKU • Proposed KI



- Current operation of KM at KKU
- Problems of Operating KM at KKU
- The need of the KM Process and tools at KKU
- Key success factors for encouraging KM at KKU
- Proposed KM strategic model for KKU



Current operation of KM

- Most units have applied KM in the work of support staff, focusing on work Enhancement.
- Joined a consortium of University Knowledge Management (UKM)
- Enhance understanding of KM process for staff. For example, conferences and training to create KM leaders, observation of agencies successful in implementing KM, and sending staff to join seminars
- · Provide rewards to whomever joins KM activities

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Current operation of KM

Tools and KM Process

- KKU now encourages staff to create and acquire knowledge by knowledge sharing among individuals and groups through the use of various KM tools, For examples: CoPs, Staff meetings, Best practice
- But lack of operate in storage, organization, capturing and codifying the working knowledge of staff
- Although, KKU does have the potential for an IT infrastructure to support the storage and dissemination of k.

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Problems of Operating KM at KKU

- Most staff did not understand KM process (56.3%+Interview) since it was new to staff. They had little or no training and did not know how to apply KM.
- does not have a well-established KM policy (37.7%+ Interview)
- Lacks a systematic and standardize KM process to guide staff. (Interview)
- Some staff lack of learning and sharing culture. (41.9%+ Interview)

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Problems of Operating KM at KKU

- Lack of a qualified KM team to advise staff on practicing KM. (in-depth interview)
- Staff had heavy workloads. (40.1%+ Interview) lead to ignored and resistance KM practice
- Problem regarding IT that lacks a KMS for knowledge storage. (35.9%+ Interview)
- Lack in the operation of KM measures. (56.3%+ Interview)

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- The need of the KM Process at KKU
- 7 steps are necessary for a KM process to succeed at KKU.
- The highest rank, based on in-depth interview and survey needs are
- 1. Knowledge shared among staff
- 2. Preserve the organizational k. by capturing and codifying, storing, and organizing k.

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The need of the KM Process

The details of each KM processes are as follow:

- **O**K. identification.
- Identify and correct the knowledge gaps that are necessary to support staff daily work successful (R.1 (61.1%)

ØK. creation / acquisition.

- Encourage and allow for the exchange of ideas and knowledge among individuals and groups (R.1 (62.3%)+ interview
- Reward staff for new ideas and knowledge. (R.3 (23.4%)
 + interview

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The need of the KM Process

ØK. capture / codification.

- Establish mechanisms to absorb and transfer k. of staff, particularly retirees (R.2 (32.9%) + interview
- to preserve meaningful ideas of staff and document them for further development (R.1 (37.1%) + interview

Ø K. storage.

- Gather and formalize existing internal enterprise and external k. such as policies and procedures, best practices (R.1 (56.3%) + interview
- Should utilize databases, repositories and IT applications store knowledge for easy access by all staff (R.2 (31.3%) + interview

The need of the KM Process

G K. organization.

- Have mechanisms for filtering, cross listing and integrating different sources and types of k. (R.1 (50.3%) + interview
- Applying the k. learned from experiences and match sources of k. to problems and challenges (R.2 (32.3%) + interview
- **O** K. distribution.
- Establish methodologies for distributing k. to staff (interview)
- Have k. in the form that is readily accessible to staff who need it (intranets and internet) (R.1 (49.7%) + interview
- Send out timely reports with appropriate information to staff (R.2 (35.3%) + interview

The need of the KM Process

K. application.

- Establish different methods for staff to further develop their knowledge and apply it to new situations (R.1 (50.9%) + interview
- Staff can quickly link sources of knowledge to problem solving (R.2 (43.1%) + interview

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The need of the KM tools KSFs for encouraging KM at KKU 2 types of tools for creation/acquisition and transfer of KKU needs various critical factors in order to knowledge. develop a successful KM plan within the university IT tools: Online discussion via Web blog (interview) Data mining (R.1,30.5%) Directory of expertise (R.2,24.6%) 3 factors, ranked highest to lowest, based on in-Document management (R.3,27.5%) Lesson learned systems (R.4,39.5%) depth interview and survey, are: Organizational culture (R.1,37.1% +interview) Process tools: Best practices (R.1,28.1% +interview) CoPs KM measurement (R.2,29.3%) (R.2,31.7% +interview) KM Forum (interview) Storytelling • IT (R.3,25.1%) (interview) 33 34



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The details of 9 KSFs for encouraging KM

KM Administration Structure.

- A qualified and ideal KM team to lead and develop effective KM operation (R.1,51.5% +interview)
- The structure of KM administration should be composed of a CKO, KM members from different faculties, and KM faculty members with expertise in the method of KM processes (interview)

Administrators.

- Understand, support, and participate in KM achievements (interview)
- Strong commitment to KM initiatives (interview)
- Establish clear KM strategies, and vision (R.1,51.5% +interview)
 Maintain an environment that motivates and enables staff to create and share knowledge (R.2,49.7% +interview)

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The details of 9 KSFs for encouraging KM

KM process.

- A standardized KM process that is designed to provide guidelines for staff. (R.1,44.3% +interview)
- Easy to use and understand (interview)
- Encourage staff to integrate KM into their work. (R.2,43.7% +interview)

KM measure.

 Measure the impact of KM activities for performance, including benefits (R.1,39.5% interview)

The details of 9 KSFs for encouraging KM

KM strategy.

- Establish a clear vision and strategic plan for use of a KM approach. (R.1,51.5% +interview)
- Should address a KM structure that combines IT, process, measures, and roles and responsibilities. (R.2,49.7% +interview)

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Proposed KM strategic model for KKU

The relationship between KM process and KM strategy

- KM strategic model for KKU is hybrid strategy or dynamic strategy which focus on both a personalization (people-to-people) and a codification (people-to-document)
- A personalization strategy is leading role and a codification strategy is supporting role

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 These strategies still need more factors including leadership, KM process, measurements, KM strategy and KM team



Conclusion This model developed at KKU can be viewed as a KM strategic model for other Thai universities in their quest for a working KM model. Because Thai universities have the same surroundings and context

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Conclusion

The highlight of this study

The research approach is based on the components of KM strategic development

Purpose KM model that alignment with KM processes and KSFs (suggested by the recent research of KM strategy)

The limitation of this study

Lack of the process of implementation of the KM strategy (suggest for future research)

