

Appendix 1.
Interviews Form

Evaluation of a Knowledge Management (KM) Model For Construction Projects

A. Background and General Information

Name:

Address:

Date of Interview:

Position:

Experiences in KM:

B.Knowledge Management

1. What do you understand by the term KM?
2. What is the stimulus/reason for practicing KM?
3. What activities are important in KM?
4. What are the results and outcomes required from the implementation of KM?
5. Are there any other issues that you would like to mention regarding KM?

C. Model Evaluation

I would be grateful for your comments on the following KM model with regards to criteria such as ease of understanding and use, comprehensiveness, applicability, feasibility, structure, etc.

This model is designed to help firms taking the first step into KM or those trying to improve their existing system, by providing a general guide for construction organizations to identify what knowledge is available and important to their organizations and where it is found, what stages and activities can be followed to develop and apply a successful KMS, what tools and services can be provided by an effective and efficient KMS, how users can benefit from the KMS, and what challenges and factors can be faced throughout the implementation and application of a KMS. This model can be considered as a general guide for construction organizations, while more specific details will be left to be decided by the organizations to support their special characteristics.

The main components of the KM model developed in the research are shown in Figure 1, where more details and descriptions of the components will be provided in the following sections.

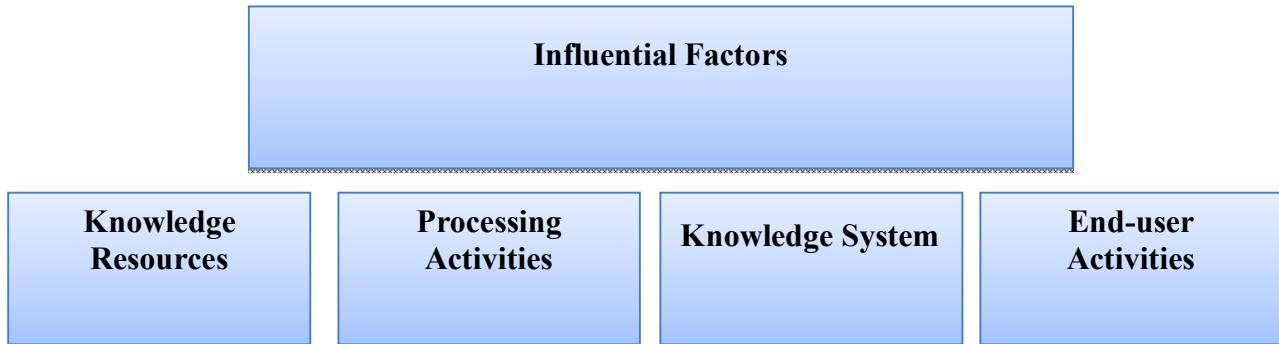


Figure 1 Components of the proposed KM model for construction projects.

1. Knowledge Resources

Many different types of knowledge are available inside and outside the organization to design and implement the KMS and to be captured and shared by the implemented system. The success of a KMS depends largely on the way in which an organization identifies the important knowledge resources available.

(The details and descriptions of the KM model depend on the updated version that was developed at the stage of sending the letters to the participants).

Appendix 2.
Questionnaire Survey

Appendix 2.1 Questionnaire Survey:-

SURVEY ON KNOWLEDGE MANAGEMENT (KM)

IN CONSTRUCTION COMPANIES

INTRODUCTION

Knowledge management (KM) is process that help organization to create, organize, store, use and share and expertise necessary for activities such as problem solving, dynamic learning, strategic planning and decision making. **Knowledge Management system** refer to a type of it – based information system developed to include information, documents, knowledge, experience and perception of employees through e-messaging, e-chatting and other tools. The aim of survey is to capture the initiatives for KM and investigate the critical success factor for implementing knowledge management in construction industry. You are kindly requested to participate in survey. This will not take you more than 15 minutes to complete.

This survey is not aiming to capture any commercially sensitive information. Nevertheless, all information will be treated as strictly confidential with full anonymity to participating organization

INSTRUCTION

This questionnaire ask for your opinion about KM in general and also KM system in your organization

The answer will depend on your own judgment that comes from your experience in this domain

Note : If you don't know or are unsure of how to response . Please leave box blank.

Note : If your company does not practice knowledge management system please go to section 4

SECTION 1: GENERAL INFORMATION

This section seeks general information about your company. This information is used only to analyze the results of submitted questionnaires. It will be treated as strictly confidential.

1. Company name
2. Your name (optional)
3. Job title
4. Your location
5. Number of employees

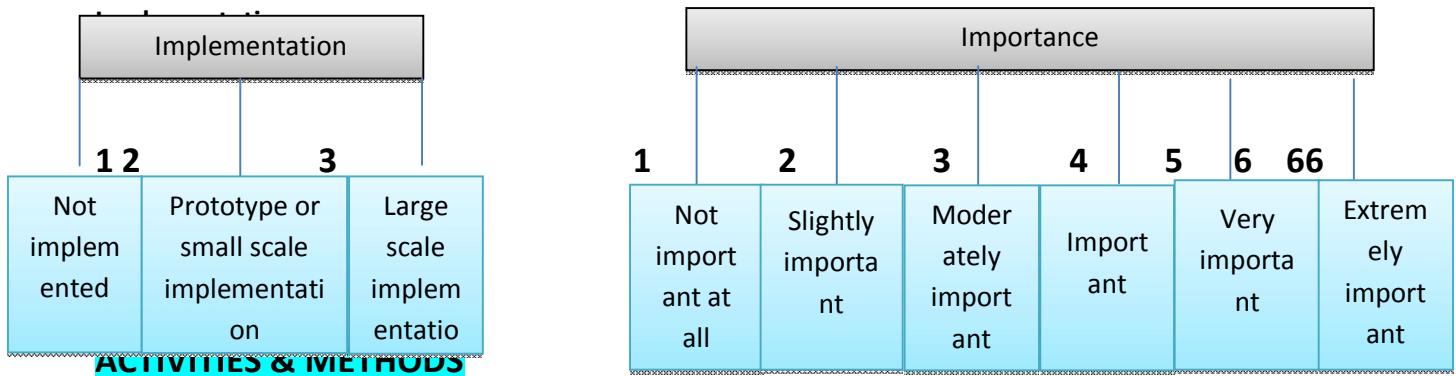
6. How do you best categories your companies

7. When did your company start implement knowledge management >year

SECTION 2 : KM ACTIVITIES , TOOLS , AND PROCEDURES

This section seeks activities procedures and tools of KM in your company

8. Which of the following KM activities and method has implemented or used in your company, and please indicate the level of importance for each activity or method successful KM implementation.

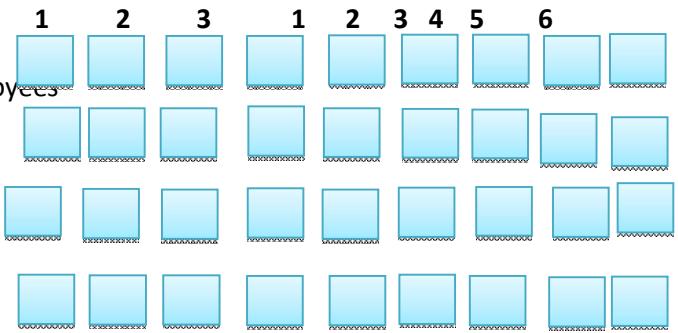


A1. System Analysis

IMPLEMENTATION

IMPORTANCE

1. Conducting questionnaire and or interviews employee
2. Identify business process and procedures
3. Identifying data & knowledge available and
Important for Organization.
4. Identifying what tools appropriate for KM system



A2. System Design

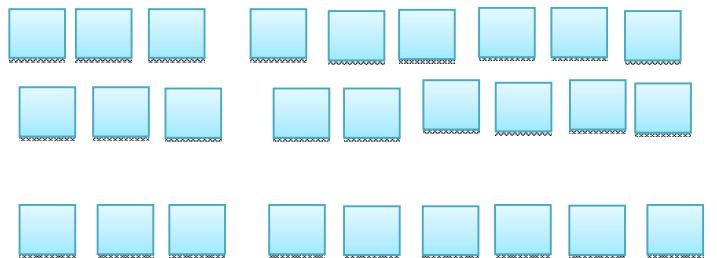
1 2 3 1 2 3 4 5 6

1. Defining aims and objectives for KM .
2. Using KM models to represent KM activities

Method, components.

3. Preparing an action plan and guideline for KM

Implementation.



A3. System Implementation



1. Implementation of a prototype before applying

Wide range KM system.

2. Appointing KM offices to provide training and

Support to employees.



3. Embedding KM activities into employees work

Processes.



A4. System Maintaining and Monitoring

1. Collecting feed backs from end users regarding

Improvement requirement.



2. Observing the differences in operation after

Implementing KM.



3. Monitoring the system performance and showing

Bottle necks.



4. Monitoring the environmental factor such as

Management strategy employee's culture and technological factor.



A5. system evaluation

1. Investigating business process improvement



3. Evaluating the system correctness and alignment

With design Specifications.



4. Evaluating the system usefulness ease of use

And application.



A6. Knowledge capturing and storing



1. Recording problem solution &experience

In electronic repository.



2. Referring knowledge to its sources



3. Recording new ideas and perception of experts



And engineers.



4. Attaching pictures, video, and text files to clarify



Knowledge content.



A7.Knowledge Reusing and sharing

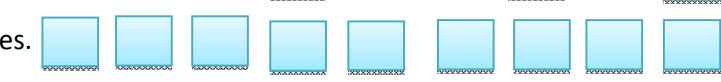
1. Using internet to share and transfer knowledge.



2. Using sharing tools to find required knowledge.



3. Showing contact details and experience of employees.



A8.Knowledge reviewing and approving

1. Using internet to publish and edit knowledge



2. Reviewing knowledge contents by experts or Knowledge team



3. Classifying knowledge to facilitate knowledge



Searching function.



A9.Using database to create data

1. Capturing data and information of projects



In electronic repository.



2. Using data mining, data analysis, and reporting tools



3. Recording knowledge and information concluded



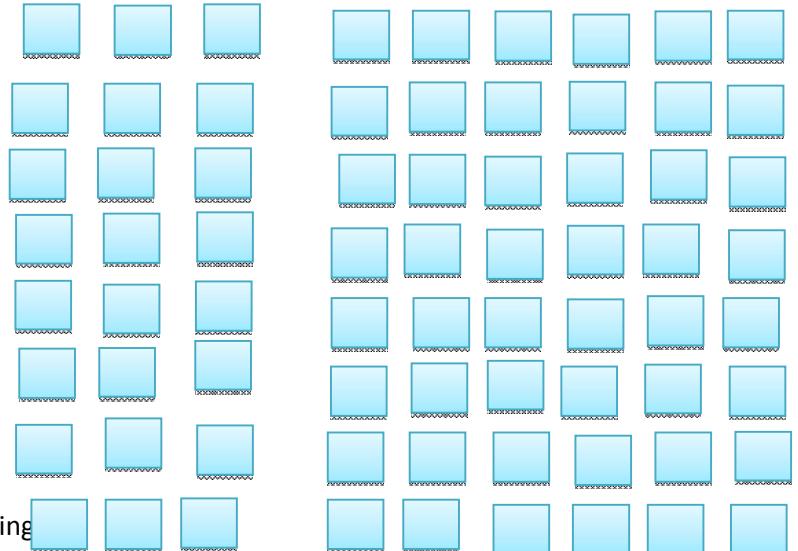
By using previous tools.



A10. System tools



1. User manual and help desk.
2. Data mining, analysis and reporting.
3. Document management.
4. Photo and/ or video management.
5. Training and support.
6. Knowledge searching.
7. Knowledge Map.
8. Yellow pages and/or contact details..
9. Subscribing and/or internet password interning



To define authority level

10. E-meeting, messaging, chatting, discussion



Board, forum.

11. Decision support system and or intelligent.



Section 3: critical success factor

This section seek your perception on the importance of factor for successful KM in your company

9. Which of the following statement can be used to describe the KMS in your company? Decide

The level of importance for each statement for successful KMS in general. Please use this scale

Describe your company knowledge system			Importance					
1	2	3	1	2	3	4	5	6
Not describing at all	Moderately describing	Extremely describing	Not important at all	Slightly important	Moderately important	Important	Very important	Extremely important

Describing knowledge importance

System in your company

1 2 3 1 2 3 4 5 6

F1.CULTURE

1. Culture that values knowledge seeking



And problem solving.

2. Providing time to employees to perform



Knowledge related activates.

3. Updating employees and other user



About change in KMS.

4. Building up awareness and training



On use of kms.

F2.MANAGEMENT LEADERSHIP AND SUPPORT

1. Management establishes the necessary



Condition for KM.

2. Leader encourage and support knowledge



Creation, sharing and use.

3. Knowledge managers constantly search



for new approaches to KM.

4. Development of a km strategy which



Clear objectives and goals.

5. Sufficient financial resources for



Building up Technological system.

F3.INFORMATION TECHNOLOGY



1. Matching the kms with km objectives

And users' needs.

2. Utilization of internet and internet.



3. Ease of use of the technology.



4. Protection knowledge from unauthorized



5. Exposure or being stolen.



6. 5. Ability of system to capture and store



Tacit knowledge.

6. Appropriate categorization and



Updating of knowledge.

7. Application of technological tools.



F4.MEASUREMENT

1. Measurement benefits per unit



of investment.

2. Mentoring the system performance



and showing bottle neck.

3. Developing indicator for measurement of KM.



F5 ORGANIZATION INFRASTRUCTURE

1. Appointing of km leader and /or km team
or work.



2. Ensure of sufficient human resource to



Support km initiatives.

3. Specifying activities, tasks and process



For performing km.



4. Specifying roles and responsibilities

for performing km tasks

5. Recruiting and hiring of employees to

fill knowledge gaps



F6 DRIVERS FOR KM

1. Building up and maintaining employee



2. Sharing employees expertise and perce



3. Identifying internal and or time to solve



Problem in projects.

4. Enhancing work quality of projects



5. Reducing cost and /or to solve



Problem in project.

6. Providing competitive advantages to



The company.

7. Helping senior engineers and manage



to avoid Many problems cause



8. Presenting accurate and timely



Knowledge to Facilitate decision making.

9. Providing an effective tool to train



Junior engineer.

10. Enhancing relation and coordination



With customer, Partners and suppliers.

11. Encouraging continuous improvement



and/or new Product and services .



12. Reducing rework and save time of



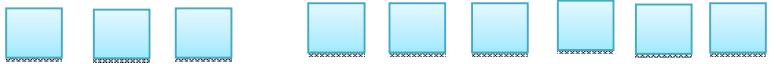
Solving repeated problem.

F7 . SPECIFICATION OF KM SYSTEM

1. The knowledge system easy to use .



2. It is easy for users to find useful



Information for Problem solving.

3. The system collects knowledge that



Important for organization.

4. The system ignores knowledge that is



not important For the organization.

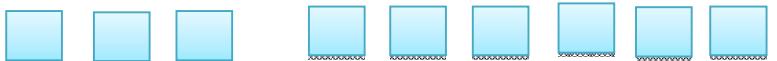
5. The system facilitate knowledge sharin



6. Between company's employees.



7. The system maintains good



Relationship with Customer and other partners.

8. The role of knowledge team worker



Is very important.

F8. KM barriers and challenges

1. The nature of construction projects (e.g. no



Work, no standard procedure, pressure to complete on

Schedule, changing employee's different phase).

2. Lack of organization culture for knowledge



Creation and sharing (e.g. build trust among employees

Establish time and place for km transfer provide).

3. Lack of structured procedure and process

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to implemented km.

4. Lack the adoption of well formulated

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km strategies and implementation plane .

5. Lack of knowledge manager or team to

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Implement KM strategy.

6. Lack of awareness of the importance of

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KM organization.

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7. Lack of training and support.

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8. Lack of technology and techniques for

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km capture and sharing

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9. Lack of leader ship support

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10. Lack of recourse in team of a budget,

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Staff, and it infrastructure.

11. Employee resistance to share knowledge

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12. Lack of post-projects reviews and

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Project documentation.

10. To what extent do you consider your company knowledge management effort to

besuccessful?

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11. To what extent do you consider the KM activities and critical success factor?

PresentedEelier to successful indescribing thosewhich are

<input type="checkbox"/>										
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Crucialfor km adoption in construction industry.

SECTION 4: FOR NON-KNOWLEDGE MANAGEMENT ADOPTERS

12. why do you not practise KM in your company (you may tick more than one answer) .

Lack Of Time

Have Never Hard

Lack Of Financial Resources

Don't Understand

Top Management Does Not Support

Unsure Of Its Potential Benefits

Not Need

Not Interested

13. Do You Plan To Implement Km In The Future.

Feedback

14. If you're interested to be contacted for follow up short interviews, please tick this box.

15. If your company is interested in participating in the research case study ,please tick this box .

16. If you require summary of the funding of this survey, please tick this box.

17. If you ticked any of the feedback question ,please enter your email address and or contact details .

Other comment

**(Please Use The Space Provided To Reflect On How To Improve Km In
Construction Industry)**

THANK YOU VERY MUCH FOR YOUR VALUABLE TIME AND CONTRIBUTION TO THIS SURVEY.

ALL RESPONSES WILL BE TREATED ANONYMOUSLY.

Appendix 2.3 Part of the Sudan Construction Companies Sample

Not available in the digital version of this thesis.

Appendix 2.4 Sample of Invitation Message

Survey on Knowledge Management (KM)

Dear Sir/Madam

I am a MSC student at the Sudan University. My work is centered on investigating Knowledge Management (KM) application in Construction Companies. The following survey is a very important part of my MSC research project.

It will be greatly appreciated if you help to forward the following message to at least one of the employees in your company who may have interests in databases, information systems, computer networks and/or research and development projects so as to participate in this survey.

Thank you very much for your support.

Dear Sir/Madam,

Re: Survey on Knowledge Management (KM) in Construction Companies.

I am conducting a research about Knowledge Management (KM) practices in construction. KMSs refer to a type of IT-based information systems developed to include information, documents, procedures, experiences and knowledge of employees, and to facilitate collaboration of employees through tools such as e-messaging, e-chatting and e-meeting.

I am seeking the opinion of a group of experts in computer systems, such as you, to assess the importance of a set of factors which are provided in the questionnaire. You do not need to have a formal knowledge management programme in your organization to answer these questions - many of the practices listed in the survey may be parts of other programmes and systems you have, for example, database, information system, etc.

I would appreciate your participation to complete the questionnaire which will not take more than 15 minutes from your time. Your response is very important for the success of the research, which in turn could be helpful to many construction companies which are trying to apply KM.

All survey responses will be treated confidentially and used only for research purposes. Your information will be coded and will remain confidential. If you have questions at any time about the survey, you may contact me by email address.

2.5 Sample of Follow-up Invitation Message

Dear Sir/Madam

I have sent you before a message to participate in a questionnaire investigating your opinion about the importance of KM practices, methods and tools. To date, the response to my survey is inadequate. It will be greatly appreciated if you participate in the questionnaire provided in the link below and/or help to forward the below message to some employees in construction companies whose jobs are related to or may require them to use information and computer systems, so as to participate in this survey. Your participation is very important to my research.

Thank you very much for your support.

Survey on Knowledge Management (KM)

Dear Sir/Madam,

Re: Survey on Knowledge Management (KM) in Construction Companies.

I am a MSC student at the Sudan University. I am conducting a research about Knowledge Management (KM) practices in construction. KMSs refer to a type of

information systems developed to include information, documents, procedures, experiences and knowledge of employees.

I am seeking the opinion of a group of experts in **computer systems**, such as you, whose jobs are related to or may require them to use information and computer systems, to assess the importance of a set of factors which are provided in the questionnaire.

I would appreciate your participation to complete the questionnaire which will not take more than 15 minutes from your time. All survey responses will be treated confidentially and used only for research purposes.

Thank you very much for your time and support.

Yours sincerely,

Nazick Ahmed

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