# A FRAMEWORK FOR SUCCESSFUL CRM IMPLEMENTATION

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#### **Abstract**

Although the promising potentials of CRM as a way of capturing comparative advantages in the face of the growing competition, the failure percentage of its implementations is still relatively high which causes increasing concerns for business organisations. Many studies have addressed the problem of the high rate of CRM failure from different perspectives such as strategy development and success factors implementation. The aim of this paper is to extend the line of knowledge about realizing the promising outcomes of CRM implementations. To do so, the paper is proposing a conceptual framework for successful implementation of CRM based on integrating CRM implementation phases, CRM components, and CRM success factors. The paper will assess the feasibility and usefulness of the framework by evaluating it through a real life case study in Saudi Arabia.

Key words: Customer Relationship Management (CRM), success factors, CRM components, CRM phases, framework, case study.

## 1 INTRODUCTION

The concentration on building beneficial relations with customers is not a new approach in the field of business. The increasing competition and decreasing customer loyalty have shaped the need for implementing new tools to help companies to succeed the competition and win customers' loyalty by providing more customized products and services. Rapid growth in information systems applications that enable business-customer interaction and the boom of internet technology have provided business organizations with more capabilities to cope with increasing knowledge acquired by customers and the changing nature of their demands for products and services. While the majority of business firms strive to implement CRM systems, they face the disappointing reality of the significant percentage of failure within their CRM projects implementations. As reported by the Gartner Group, around 50 % of all CRM projects failed to meet their expectations (Coltman, 2006). As a response to the need of addressing the problem of the high failure percentage of CRM projects, many researchers have developed a variety of frameworks for CRM implementation. The importance of these frameworks is generated from the fact that the absence of developing strategic CRM frameworks, in which to define success, could contribute to the disappointing outcomes of CRM implementations (Grabner-Kraeuter and Moedritscher 2002). Therefore, CRM frameworks could serve as a guide for enhancing the potential of implementing CRM successfully. Taking to consideration the importance of developing CRM frameworks, this paper will develop an integrative framework that combines three important dimensions of CRM. The paper will start by defining CRM as a start point for shaping the focus of the research. Hence the area of CRM failure will be explored to point out major obstacles in the way of CRM implementation. After that, the studies in the field of CRM success factors will be organised to identify the most common success factors for CRM implementation. Then, CRM components will be defined. Consequently, the framework will be developed based on the integration of the previous dimensions and based on some previously existed framework. Finally, the framework will be evaluated based on a case study of two telecommunication companies in Saudi Arabia.

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### 2 DEFINING THE SCOPE OF CRM

Defining CRM is required for developing a clear understanding of what CRM means to an organisation especially when lacking of such clear understanding is considered as a barrier to successfully implement CRM (Nguyen et al, 2007). Such a fact is significantly important when considering the wide range of CRM definitions in which CRM is understood differently by different people (Richard et al, 2007; Sathish et al, 2002; Winer, 2001). Although the view of possible convergence toward common definition for CRM (Peelen et al, 2006; Boulding et al. 2005), different approaches are carried out to define CRM ranging from narrow definitions (technical) to broad definitions (strategic) (Payne and Frow, 2006). However, this broadness in defining CRM could be a result of the new emergence of the concept into two fields of study, Marketing and Information Technology (Da Silva and Rahimi, 2007). From a technical point of view CRM, Chen and Chin (2004) defined as CRM as a methodology that heavily employs certain information technology such as database and internet to leverage the effectiveness of relationship marketing process. On the other hand, the wider definition of CRM concentrates on strategic orientation of CRM. For instance, Gray and Byun (2001) have defined CRM as a primarily strategic business process issue rather than technology which consists of the following components: Customer, Relationship, and Management.

For the scope of this research, CRM definition should cover major aspects of CRM and should focus on its objectives as the capability of CRM to achieve its objectives is highly dependent on its clear definition. Based on Payne (2004), Payne and Frow (2005) and Shang and Lin (2005), CRM definition for this research is: a strategic approach that integrates Process, People, and Technology cross functionally to understands organisation's customers, improve stakeholder value, and deliver profitable and long term relationships with the customers. Therefore, success factors for CRM lie in the scope of managing, integrating, and controlling CRM components.

## 3 CRM COMPONENTS

Although researchers have developed different detentions for CRM, these definitions are closely related. There is a general acceptance among researchers of the categorization of CRM components. CRM consists of three major components: Technology, people, business culture and relationship, and Process (Ali and Alshawi, 2003). The contribution to each component varies according to the level of CRM implementation.

### 3.1 TECHNOLOGY

Technology refers to computing capabilities that allow a company to collect, organise, save, and use data about its customer. Technology is the enabler for CRM systems to achieve their objectives of collecting, classifying, and saving valuable data on customers. Integration technology allows organizations to develop better relationship with customers by providing a wider view of the customer behaviour (Thompson et al., 2006). Thus, organizations are required to integrate IT to improve the capabilities of understanding customer behaviour, develop predictive models, build effective communications with customers and respond to those customers with real time and accurate information (Chen and Popovich, 2003). For an organization to integrate IT, concepts such as data warehouse, software customization, process automation, help desk and call centres, and internet influence should be addressed (Mendoza et al. 2007).

### 3.2 People

Employs and customers are a key factor for successful CRM projects. CRM is built around customers to manage beneficial relationships through acquiring information on different aspects of customers. The main objective of CRM is to translate the customer information into customized products and services that meet the changing needs of customers in order to gain their loyalty. Nevertheless, a full commitment of the organization's staff and management is essential for an effective CRM implementation to best serve customers and satisfy their needs.

### 3.3 Business process

CRM is a business strategy that has its philosophical basis in relationship marketing (Chen and Popovich, 2003). CRM success requires a change of business processes towards customer – centric approach. As such, all business processes that involve both direct and indirect interaction with customers should be analyzed and assessed (Mendoza et al. 2007). Although CRM has an organization-wide impact, process that has direct interaction with customers should be dealt with as a priority when integrating and automating business processes. According to (Mendoza et al. 2007) the main business processes that should be addressed in CRM implementation are: marketing, sales, and services.

### 4 EXPLORING CRM IMPLEMENTATIONS' FAILURES

The challenge of researching the causes of the problem of CRM failure has motivated many researchers and practitioners to contribute to the literature on CRM failure and its causes (Wisktron, 2004; Rigby et al. 2002). Different reasons cause the failure of CRM to meet its objectives. While some of these reasons are inevitable, many can be avoided (Payne, 2004). In general, CRM failure is caused by the complexity of technical and organisational issues that are associated with CRM implementation (Goodhue et al, 2002). The field of CRM failure studies have provided a wide range for possible causes for CRM failure leading to identify some roots for the problem that prevent high number of implementations to realise their objectives.

According to Nguyen et al, (2007), the lack of factors such as top management support, aligning internal processes, linking CRM project to organisation's higher-level strategies, focus on ROI (Return on Investment), achieving success early in the project. Chalmeta (2006) has supported some of the previous failure causes as he pointed out the following factors as causes for CRM failure: 1. Thinking of CRM as a pure technology; 2.r Lack of management support; 3. Lack of customer-centric culture; 4. Lack of readiness process; 5. Poor quality data; 6. Lack of change management; 7. Lack of vision and strategy; 8. Lack of involving the final user in designing CRM solutions. Other evidences supporting previous factors is found in the work of Kale (2004) where the author has named seven reasons (sins) for CRM failure as the following: 1. Viewing CRM as a technology; 2. Lack of customer-centric vision; 3. Insufficient appreciation for customer life time value; 4. Inadequate support by top management; 5. Underestimating the importance of change management; 6. Failing in re-engineering business processes; 7. Underestimating difficulties related to data mining and data integration. Other studies have focused on more general factors as possible causes for the CRM failure. For example, in a study that involved 700 companies, Forsyth (2001) has argued that the causes of the CRM failure are: Organizational change (29%), Company policies/inertia (22%), little understanding of CRM (20%), and Poor CRM skills (6%). In addition, lacking of creating proper CRM strategy was mentioned as main reason by Rigby (2002). The researcher has highlighted four perils for CRM implementation that are to be overcame: implementing CRM before customer strategy, rolling out CRM before changing an organisation to match, assuming that more CRM technology is better, and stalking, not wooing customers. However, other factors such as lack of focus on human/social factor (employee and customers) were the main problem behind the failure of CRM implementations (Plakoyiannakiet al, 2008; McCalla et al, 2003; Bohling et al, 2006; King and Burgess, 2007). Nevertheless, misconceptions such as assuming that CRM is equal to customer acquisition and customer satisfaction is equal to customer loyalty or focusing only on profitable customers could contribute significantly to increasing CRM implementation failure (Verhoef and Langerak, 2002).

### 5 CRM SUCCESS FACTORS

Success factors have received increasing attention within the literature of CRM. Many publications of researchers and practitioners have addressed the area of CRM success factors (Pan et al. 2007). Table (1) and (2) are a summary for the previous studies on the CRM success factors.

| King and<br>Burgess (2007)                   | Chalmeta (2005)  | Da Silva and<br>Rahimi (2007)   | Pan and et al. (2007)                | Alt and<br>Puschmann<br>(2007) | Saloman et al (2005)                      | Mendoza et al<br>(2006)                              |
|--|--|---------------------------------|--------------------------------------|--------------------------------|---|--|
| Top<br>management<br>support                 | Awareness among management                                     | CRM<br>philosophy               | Evolution path                       | Evolution<br>Path              | Top<br>management<br>commitment           | Senior<br>management<br>commitment                   |
| Communication<br>of CRM<br>strategy          | Defining vision and objectives                                 | Project mission                 | Timeframe                            | Timeframe                      | Change in corporate culture               | Creating of<br>multi<br>disciplinary<br>team         |
| KM capabilities                              | Creation of committee  | Top<br>management<br>commitment | Reorganization                       | Organizational redesign        | Significant customer data                 | Objective definition                                 |
| Willingness to<br>share data                 | Official appointment of coordinates                            | Project schedule<br>and plan    | Minimize customization               | System architecture            | Clearly<br>defined CRM<br>processes       | Inter-<br>departmental<br>integration                |
| Willingness to change process                | Development and<br>approval of the<br>project plan             | Clint<br>consultation           | Time and<br>budget<br>management     | Change<br>management           | Sufficient<br>resources                   | Communication<br>the CRM<br>strategy to the<br>staff |
| Technological readiness                      | Monitoring to control time slippage                            | Connectivity                    | Customer involvement                 | Top<br>management<br>support   | Understanding<br>of customer<br>behaviour | Staff<br>commitment                                  |
| Cultural change<br>/ customer<br>orientation | Prevent resistance to change                                   | Skilful<br>personnel            | No culture conflict                  |                                | Extensive IT support                      | Customer information management                      |
| Process change capabilities                  | Motivate staff   | Technical tasks                 | Use of the<br>CRM system<br>managers |                                |   | Customer<br>service                                  |
| System integration capabilities              | Measure the<br>degree of<br>participation/Asses<br>the results | Client<br>acceptance            | Measurement                          |                                |   | Sales<br>automation                                  |
|  |  | Monitoring and feedback         | Management involvement               |                                |   | Marketing automation                                 |
|  |  | Communication                   |                                      |                                |   | Support for operational management                   |
|  |  | Troubleshooting                 |                                      |                                |   | Customer<br>contact<br>management                    |
|  |  | BPS and software configuration  |                                      |                                |   | Information<br>systems<br>integration                |

Table 1: CRM success factors

| Mankoff (2001)   | Eid (2007)                                   | Wilson et al (2002)  | Goodhue et al. (2002)         | Croteau and Li<br>(2003)   | Siebel<br>(2004)                          | Chen and Chen (2004)                                | Roh et al. (2005)            |
|--|--|--|-------------------------------|----------------------------|---|---|------------------------------|
| Establish<br>measurable<br>business goals  | Top management support                       | Gain champion/<br>sponsor                                  | Top Management<br>Support     | Top Management<br>Support  | Clear<br>communicat<br>ion of<br>Strategy | Champion<br>leadership and<br>internal<br>marketing | Process fit                  |
| Align business<br>and IT operations  | Organizational culture                       | Ensure market orientation                                  | Vision                        | Technological<br>Readiness | Back-office integration                   | Business-IT<br>alignment                            | Customer information quality |
| Get executive support up front   | Developing a clear<br>CRM strategy           | Define approval procedures which allow for uncertainty     | Willingness to change process | KM capabilities            | Software<br>customizati<br>on             | System integration                                  | System support               |
| Let business<br>goals drive<br>functionality                                     | Clear project<br>vision/scope                | Gain board<br>awareness of<br>strategic<br>potential of IT | Willingness to<br>share data  |                            |   | KM  | Efficiency                   |
| . Minimize<br>customization by<br>leveraging out-of-<br>the-box<br>functionality | Benchmarking                                 | Identify need for business system convergence              |                               |                            |   | Culture/structur<br>e change                        | Customer satisfaction        |
| Use trained,<br>experienced<br>consultants                                       | Employees acceptance                         | Organise around customer                                   |                               |                            |   |   | Profitability                |
| Actively involve<br>end users in<br>solution design                              | CRM software selection                       | Address culture change                                     |                               |                            |   |   |                              |
| Invest in training<br>to empower end<br>users                                    | Integration with other systems               | Involve users in system design                             |                               |                            |   |   |                              |
| Use a phased rollout schedule  | Training                                     | Manage IT infrastructure                                   |                               |                            |   |   |                              |
| Measure,<br>monitor, and<br>track  | Realistic CRM<br>implementation<br>schedule  | Leverage models of best practice                           |                               |                            |   |   |                              |
|  | Enterprise<br>performance<br>metrics for CRM | Rapid<br>strategy/action loop<br>to experiment             |                               |                            |   |   |                              |
|  | Personalization                              | Prototype new processes                                    |                               |                            |   |   |                              |
|  | Customer orientation                         | Manage for delivery of benefits                            |                               |                            |   |   |                              |
|  | Data mining                                  | Design for flexibility                                     |                               |                            |   |   |                              |

Table 2: CRM success factors

## 6 THE SELECTION OF CRM SUCCESS FACTORS

The selection of CRM success factors for the scope of this research was based on two criteria: 1. the degree of acceptance for the factor by the literature which will be reflected in the percentage of the factor occurrence in the literature; 2. the linking between the success factor and the CRM failure causes as described in table 3.

| iccess Factor |  | Percentage in the Literature | Reason for Selection  |
|---------------|--|------------------------------|---|
| 1.            | Top Management Commitment                          | 80%                          | Received wide acceptance by literature     Associated with CRM failure causes: Lack of top management commitment (Sherif and Newby, 2007; Chalmeta, 2006)   |
| 2.            | CRM strategy (clear development/<br>communication) | 47%                          | Received a relatively common acceptance by the literature     Associated with CRM failure causes: Lack clear CRM strategy and vision (Sherif and Newby, 2007; Chalmeta, 2006)   |
| 3.            | Data management (quality / share)                  | 40%                          | Received a relatively common acceptance by<br>the literature     Associated with CRM failure causes: Poor<br>data quality, management, and integration:<br>(Chalmeta, 2006); Kale, 2004; Missi et al,<br>2005)                  |
| 4.            | Culture change                                     | 47%                          | Received a relatively common acceptance by the literature     Associate with CRM failure causes: lack of managing culture change( Chalmeta, 2006; King and Burgess, 2007)   |
| 5.            | Process change/structure redesign                  | 27%                          | Received acceptable acceptance by the literature due to the wide spread of CRM success factors     Associate with CRM failure causes: lack of managing (poor) structure change and re-(designKale, 2004; Forsyth, 2001)         |
| 6.            | IT systems (management/integration                 | 67%                          | Received wide acceptance by literature     Associated with CRM failure causes: Poor I management/integration (Brink, 2005; Mey and Kolbe, 2005)   |
| 7.            | Skilful, Motivated, and trained staff              | 40%                          | Received a relatively common acceptance by the literature     Associated with CRM failure causes; Lack of skilful employees (Forsyth, 2001; (Bohling al. 2006)  |
| 8.            | Customer involvement/consultation                  | 27%                          | Received acceptable acceptance by the literature due to the wide spread of CRM success factors     Associate with CRM failure causes: Lack of customer's involvement Plakoyiannakiet al, 2008; McCalla et al, 2003)             |
| 9.            | Monitoring, controlling, measuring, and feedback   | 33%                          | Received acceptable acceptance by the literature due to the wide spread of CRM success factors     Associated with CRM failure causes:     Lack/poor of CRM measures (Mendoza et a 2007)  |
| 10.           | Inter-departmental integration                     | 33%                          | Received acceptable acceptance by the literature due to the wide spread of CRM success factors     Associated with CRM failure causes: Lack cross-functional/inter-departmental integrati (Sherif and Newby, 2007; Mayer, 2005) |

Table 3: justifying the selection of CRM success factors

### 7 METHODOLOGY

In order to develop the framework, the research has conducted an extensive review of the literature in the field of CRM and specifically in the field of CRM success and failure within the domains of Marketing and Information Technology. Based on the literature, the framework components have been identified and justified for the framework. Therefore, the selection for CRM success factors will be identified and justified for this paper. Then, the linkage between the success factors and CRM components will be developed. On the other hand, the evaluation of the framework will be conducted based on using a case study methodology. The selection for case study as a methodology was based on the following reasons: the ability of this methodology to help the researcher to study the problem within its real environment, the extent of control an investigator has over actual behaviour and the degree of focus on contemporary as opposed to historical events (Yin, 2003). Additionally, the case study design is based on embedded single case study using two telecommunication companies in Riyadh city in Saudi Arabia. To ensure the quality of managing the case study and the collection of required information, a case study protocol will be

developed combining the following sections: Aim of the study, the study objectives, Issues to be addressed, case study cites, source of information, categories of questions, potential source of information, and format of the narrative. The information will be collected using interviews, observations, and documentations and archival records. Eight people will be interviewed, four from each company. The selection of interviewees is based on their involvement in the CRM implementation process as the following: one top management member, one CRM committee / teamwork member, Marketing manager, and IT manager from each of the two companies. The interviews are organised as semi-structured and the questions are divided into four categories: A. Questions on CRM implementation process; B. Questions on CRM components; C. Questions on CRM success factors; D. Questions on CRM measurements.

### 7.1 linking CRM success factors to crm components

As identified earlier, the main components of CRM are People, Technology, and process. The CRM success factors are embedded within these factors (shang and Lin, 2005). The aim of linking the proposed success factors to the identified components of CRM is to ensure the that each success factors is related genuinely to the CRM. It also aims to provide a clear path for managers from different levels for adopting and maintaining these factors within their range of existence and their scope of responsibility as there is no evidence among the studies of success factors relating to operationalisation and management of these factors (Esteves and Pastor, 2001). Nevertheless, it aims to help managers to control such factors with a clear vision. Table 4 shows the linkage between CRM success factors and the major components of CRM.

CRM success factors are by nature related to its components either directly or indirectly (Mendoza et al, 2007). To relate CRM success factors to its components, each factor should be define to identify the nature of the factor in terms of its relation to CRM components taking to consideration that more than one component could dominant one factor.

#### • Top management commitment

This factor focuses on the willingness of the top level management to provide sufficient and necessary recourses needed to the implementation process.

#### CRM strategy

This factor focuses on the clear definition of CRM strategy and its alignment to the organisation's general strategy.

### Data management

This factor focuses on acquiring and analyzing the right quantity and quality of information on customers to help to meet customer's needs.

#### Culture change

The ability of the organisation to transform into customer-oriented and to consider CRM as an organisation philosophy that is shared organisation-wide.

• Process change/structure redesign

This factor focuses on developing necessary changes in the organisation's structure and the related process to fit CRM compatibility including the hierarchy and reporting relations

## • IT systems

This factor focuses on the availability and management of technological resources including data warehouse management, ERP capabilities, internet facilities, and software selection and configuration.

• Skilful, Motivated, and trained staff

This factor focuses on the availability of experienced and qualified personnel and the ability of providing training programs.

#### • Customer involvement/consultation

This factor focuses on consultation, interaction, and communication with customer through enhancing interaction between the organisation and the customers.

• Monitoring, controlling, measuring, and feedback

This factor focuses on creating and implementing measurements for CRM implementation and CRM impact on the organisation's performance as well as developing appropriate channels to gain feedback for enhancing the learning process of CRM implementation for required improvements

### • Inter-departmental integration

This factor focuses on the integration of different departments and areas of the organisation to meet the general objectives of CRM and the main company's objectives as well as the objectives of these departments.

| Success factor                                      | People | Technology | Process |
|---|--------|------------|---------|
| Top Management Commitment                           | X      |            |         |
| CRM strategy (clear development/ communication)     | X      |            | X       |
| Data management (quality / share)                   |        | Х          | X       |
| Culture change                                      | X      |            | X       |
| Process change/structure redesign                   |        |            | X       |
| IT systems<br>(management/integration               |        | Х          |         |
| Skilful, Motivated, and trained staff               | Х      |            |         |
| Customer involvement/consultation                   | X      | Х          | X       |
| Monitoring, controlling,<br>measuring, and feedback |        |            | x       |
| Inter-departmental integration                      | х      |            | Х       |

Table 4: linking CRM success factors to its components

## 7. 2 The proposed framework

This research is proposing a conceptual framework that aims to contribute to implement CRM successfully based on common sense, previous studies, and experience (Payne and Frow, 2005). The framework integrates three major constructs; CRM implementation phases, CRM major components, and CRM success factors. The framework starts by a pre-implementation phase where the organization has to gain the support of top management for implementing CRM before involving in the actual implementation process. Based on gaining sufficient commitment by top management the process could proceed to assessing the readiness of the organization in terms of its human, technological, and organizational (process) capabilities to implement CRM. Therefore, the CRM strategy should be developed, aligned, and communicated to staff. The arrows reflect the flow of the process implementation. Hence, the CRM strategy should be put into action by implementing CRM project focusing on the success factors within each component of CRM. Consequently, implementing each success factors should be measured to ensure successful implementation of CRM project. The final step of the framework focuses on measuring the impact of CRM implementation financially and on marketing performance to ensure realising the objectives of CRM strategy and to assess the effect of other possible external factors. The ascending arrows reflect the process of feedback and learning process of the implementation which is based on measuring implementing CRM success factors and measuring the performance of CRM project after it is fully implemented as a continues process. The organisation could use thel feedback to re-design and re-assess its implementation process. Figure 1 shows the proposed conceptual framework.

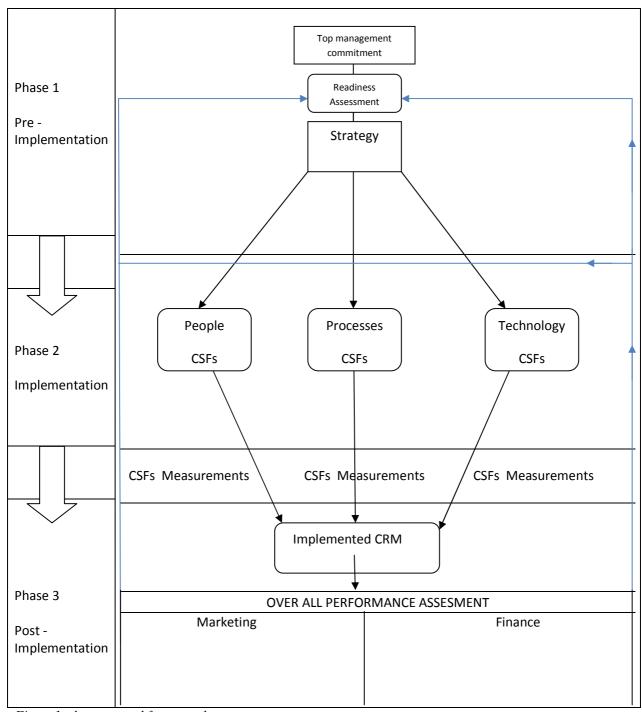


Figure 1: the proposed framework.

## 8 CONCLUSION

The framework was evaluated based on the case study companies; 1 and 2. The selection for the two companies was based on their characteristics, as they both have implemented CRM, and for their dominance of the telecommunication market (100%). The companyl launched its CRM project in 2004

but it failed to realise its objectives due to the poor assessment of CRM requirements which an evidence that supports the need for the pre-implementation phase. In the second attempt, company1 started its CRM implementation in 2006. The company conducted a careful assessment for CRM requirements by consulting an experienced company that suggested a structure redesign and a strategy formulation. Hence, the company started the implementation process by gaining the top management commitment through establishing a CRM committee under the direct supervision of the company's CEO. Therefore, the company developed a strategy for shifting to customer-oriented company and aligned the CRM strategy to the organisation's general strategy. On the other hand, as a subsidiary for a larger company, company2 followed a plan for implementing CRM as a part of its general strategy. Both companies provided a significant support for the importance of pre-implementation phase.

Regarding the implementation phases, both companies realise the three phases of the implementation process( pre-, actual, and post-implementation) as a plan for implementing CRM especially as a guide for their implementation time frame. Furthermore, the results support the existence of CRM components even though there was an overlapping between these components. A clear vision of defining CRM components was highly appreciated as a need for managing CRM implementation in terms of specifying responsibilities. Nevertheless, the importance of the components varies between the two companies.

Success factors existence and management for CRM implementation were validated by both companies. Success factors as proposed by this research were identified by the two companies with different level of emphasis. Although the acknowledgment of the existence of the success factors by the two companies, these factors were not identified clearly or officially. However, company1 emphasised success factors of nature of human and organisational as it faced problems regarding restructuring its processes and regarding change resentence by its staff. On the other hand, company2 emphasised the importance of technological factors.

Measuring success factors was not sufficiently developed and applied while the overall performance assessment was highly supported especially in terms of financial measurements.

In general, the framework proved feasible implementation and provided a useful guidance for successful, implementation for CRM projects. Other factors such cultural impact on CRM implementation, especially on CRM human components, have a significant effect on the implementation process. Such factors need more investigation especially in developing countries.

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