ERP Management System and Conquering the ERP Managerial and Operational Impacts

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Abstract
The world has happened to additional digitized. Production is depending on knowledge to assist them improve their production method. Corporation is appearing for information scheme that can hold enormous workloads. An ERP incorporates dissimilar subsystems into one enormous scheme that shares one database. It improves efficiency and brings more revenue to companies. The purpose of this paper is to address the impacts of ERP systems on association. The paper will discuss these issues and current a system to conquer them. Research was carried out with articles, as well as books, to gather the appropriate possessions that will help us in discussing the issues that donate to ERP systems. A huge quantity of data was composed that symbolize millions of users. In this paper explore the composed data will give researchers insight into the impacts brought about by ERP systems. In addition, the paper will investigate these issues and their impacts on organizations.

Keywords—Knowledge, ERP System, Organization, Impacts of ERP System

I. INTRODUCTION
The use of enterprise resource planning (ERP) software has become gradually more common in a lot of today’s production. It is accept in many firms in effort of humanizing business presentation. The perception of business presentation can be operationalised as financial gains by the organization, prepared improvements for the association or insubstantial gains for the association. It will be on the operational and insubstantial gains resulting from ERP accomplishment. The cause for this selection is that the economic benefits have been evaluate many times before and do not give a direct involvement of the result of the ERP system in explicit. The reason for the deficiency can be seen in that the economic benefits are calculated quantitatively; though, a qualitative advance focusing on operational and insubstantial benefits can better outline the direct relationship between the ERP system and the production presentation. The remuneration of ERP systems are typically overestimated by ERP vendors. Promise are made about presentation such as fast return on investment and fast result making but such claims need to be researched and tested in order to establish their degree of rightness. The present examine surrounding the profit of implementing ERP systems and to investigate this relationship using a discerning case-study based on victorious ERP accomplishment and stabilization. The significance of this topic lies within the wide-spread of ERP systems while there are clearly many examples of ineffective ERP impacts on industry presentation. Investing into ERP systems which are very expensive and which don’t return industry value will waste industry possessions. Consequently, it is significant to illuminate the imprecision surrounding the relationship between ERP and industry presentation. To additional examine the relationship between ERP acceptance and industry presentation will provide a relationship between Information Technology consumption and business performance.

II. RELATED WORK
In order to create an ERP realization a success, we need a good system. Limited studies were conducted in ERP accomplishment plans. Two of this accomplishment system will be discussed in this section. Most of the studies focus on the critical success factors of ERP success. There are many factors involved in making the ERP project a success. There are critical factors (Velcu, 2007). According to Umble, there are many success critical factors. The first one is a clear understanding of planned goals. This is the first factor since you require understanding why you want to change to ERP. This factor means that the association needs to understand what they desire to achieve and how they can achieve it. In order to do that, they need to understand the planned goals (Umble, Haft, & Umble, 2003).The second factor is promise by top organization. This is very significant. The members of top organization in any association are the choice makers. And in order to create the ERP project work, it needs full support from top organization (Umble, et al., 2003). The third factor is outstanding scheme organization. A great scheme running approach needs to be followed in order to achieve achievement. This involves a clear understanding and definition of objectives. They need to have good work and resource plans.In termination, the organization needs to path the project sequence (Umble, et al., 2003). The fourth
factor is managerial modify organization. The modify organization is very significant as organizations always face confrontation from employees and users (Umble, et al., 2003). The fifth factor is having a great execution team. As we have seen in some of the previous cases, it is very significant to have a great consulting partner. For example, PharmaCo lost money and time as of a poor accomplishment team that had no experience with Oracle products. The sixth factor is data correctness. An association that equipment an ERP system will need to move its data from the old scheme to the ERP organization. This means that the data that is entered into the ERP system has to be correct and precise; or else, it will reason many problems. The seventh factor is widespread education and training. It is very significant to reduce customer confrontation, and can attain that by having training sessions. Educating and training workers is very dangerous to the achievement of the ERP project (Umble, et al., 2003). The eighth factor is focused presentation events. The ERP scheme presentation must be evaluate by the association to keep pathway of how the system is meeting the organization’s goals. The ninth and last factor is multi-site issues. It is primary to the ERP system, and it is very hard to employ, so it has to be taken care of by a top implementation team (Umble, et al., 2003). Another paper also mentioned comparable dangerous factors. They also gave a scheme to lead the project ERP to success. They alienated their system into four phases: rental phase, project phase, shakedown phase, and onward and upward phase. (Nah, Lau, & Kuang, 2001).

III. ERP ISSUE
The ERP system could develop organizations enormously, but only when realize properly. When the system is not implemented properly, it could influence organizations very badly. It could obliterate companies. Effects of Enterprise Resource planning scheme association: ERP realization, there are three types of realization impacts: human being, workgroup, and directorial impacts. These impacts are operational and managerial. Each of these effects could injure organizations roughly. These impacts bring many issues to organizations. They will be discussed separately under these three categories. These two impacts are shown in Figure 2. The figure shows the two major types of impacts that the ERP organization might bring.

### Fig.2 ERP impacts

#### A. Managerial impacts

There are numerous problems that concern an association’s supervision. Organization is always working to continue or boost profit. The ERP system could require a lot of money after deployment when problems start too materialized. It should decrease costs, which will in turn boost proceeds. But sometimes, as with the case study presented, a company suffers and money is a concern. The money is in reality a big issue, since when a company is in economic disaster, it cannot function competently. A company starts to cut costs and unexpectedly it loses its place in the market; typically, it takes a very long time to make progress.
They determined to realize an ERP system in 2000. They acquired an Oracle creation and chose a local customization vendor to do the realization. The organization chose the wrong retailer; the retailer had no experience with Oracle products. Eight months later, the accomplishment was stopped and a new retailer was selected. They lost their money that they paid to the local merchant. These problems are affecting the organizations in general, but also the organization department in meticulous and to a greater degree since they are the ones who are the choice makers. When you make a choice, you have to deal with the penalty. For example, if the organization would have taken more time with exploring consultant vendors, they could have avoided these problems. But they were rushing in making the conclusion.

B. Operational impacts

In order for a scheme to activate efficiently, it has to be implemented very well. The most imperative factor in the achievement of the development is the accomplishment stage. A technical difficulty in transferring the data from the old scheme to the new scheme has put the Water Corporation in a terrible situation; the data was simply not available, another technological problem that can put an association. It is one of the biggest Chinese companies that work in cosmetics. They determined to immigrate to an ERP system. They selected AB as their enclose retailer. The unconstructive symbol is situated after the numbers. Furthermore, the numbers were overlapped and complicated to read. As a result, they had to fix the reports after they were generating, so the procedure took much longer than it used to on the old system. The company lost their money on the purchase of the system and suffered because of that. Ultimately, they sued the seller and got their money back after almost two years and had to restore the whole system. though these technological effects impact the association from an operational standpoint more so than from a executive perspective because operations are stopped, operational and managerial effects overlap, and one affects the other.

![Fig.4 ERP Operational Impacts](image-url)
IV. ERP REALIZATION CHALLENGES

Some of the discussed realization challenges faced by organization as per the literature include change management, project management, knowledge management distress, and resource and technical constriction. Classifies the accomplishment challenges into three main categories namely; production, methodological and intellectual challenges. The dissimilar accomplishment challenges which association may encounter at dissimilar step of the realization lifecycle both studies use the ERP experience lifecycle model to discover the ordinary problems. While Kumar et al. (2003) focus on the project and shakedown phase, Markus et al. (2000) classify the issues along the chartering, project, shakedown and onward and upward phases.

A. Top Management Support and Commitment

Undeniably, one of the most important challenges faced by organizations is make sure top management’s support and commitment throughout the implementation cycle. Top management and impractical organization opportunity have been cited as critical failure factors. While top management support has always been rated as one of the most crucial factors contributing to a positive ERP implementation outcome, some studies have, however, alluded to lack of top management support and unrealistic management expectations as critical failure factors.

B. Cross Functional organization

Adequate functional organization is observed as one the key confront faced by organizations as require of organization among dissimilar business units and stakeholders has been attributed as one of the factors leading to accomplishment delays and managerial divergence finally leading to accomplishment failure. Divergence of interest between dissimilar functional units and require of source assurance were decorated as a dangerous issues linked to accomplishment failure.

C. Knowledge Challenges

Recognized information obstruction includes arrangement and incorporation acquaintance. Absorption information gap refers to the complexity encounter by employees to understand the ERP system while configuration knowledge gap is the need of required knowledge to configure an ERP system to match the managerial needs. Absorption information gap is an ongoing challenge experienced by organizations and the gap is amplified by employees’ require of process and scientific information. Information transfer from consultants to the organization’s employees is another widely cited information challenge.

Ordinary complexity encounter by association in the chartering phase include failure to link the knowledge to the production approach, poorly defined project metrics, poor understanding of organizational necessities and poor change organization. In the project phase, association may knowledge staffing problems, poor information transfer from consultants and vendors, poor quality of certification and arrangement errors while the challenges experienced in the shakedown phase include bug fixing, data inconsistency, slow system presentation and failure to resume to most favorable presentation. Some of the most usually debated managerial & information challenges.
V. PROPOSED SYSTEM

There are a lot of impacts of the ERP system that have consequence on an association. These impacts are seen in the case of an ERP disaster. Many schemes have been planned to check these problems from incident, but they maintain to happen. In this paper, a scheme will be proposed to conquer these issues. The scheme is called Solve Scheme:

A. Managerial impacts

The effects of managerial problems are wastes of:
• Time
• Money

The causes can be grouped into three major categories:
• Poor organization ability
• Hurried organization act
• Poor decision-making skills

B. Operational impacts

As we have seen, the impacts of prepared problems are:
• Production method shutdown
• Technological problems

The causes are under three main categories:
• Poor professional seller
• Poor remove of data
• Do not apply government principles

Success Scheme

The figure below is the proposed success system for conquer the managerial and operational impacts. In order to conquer this adversity, need to have a good start. The stages are,

- Authority group
- Group preparation
- Statement
- Participation
- Production development Mapping
- Realization Plan
- Tracking
- Estimation

1. Authority group

In this stage, the top organization will form an authority group from the association. This group should include experts in three areas: ERP scheme, production method, and information scheme. The group should also include consultants from outside of the association who are authority in ERP products.

2. Group preparation

In this stage, the group should intend a main preparation. This preparation should identify the stage that they should go through in the development. They are of the following: identify issues in the current information scheme; Set up goals; Review proposals; Choose ERP product; Choose integration partner; completion; preparation; and System Testing.

3. Statement

In this stage, the system should be statement to all of the workers in the group. This stage is significant since the participation of the employees is very significant.

4. Participation

In this stage, the workers will be told how they will be concerned in this project. The participation of the workers will decrease the user confrontation. They will also have superior confidence toward this project.

5. Production development Mapping

In this stage, the combination partner will first meet with the authority group to discuss the chief processes of the scheme. Then they have to go to each section and understand how each production process is carried out.

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Fig.7 Success Scheme
6. Realization Plan

In this stage, the combination partner will build the realization plan. Furthermore, they need to discuss this plan with the authority group and get their consent.

7. Tracking

In this stage, the authority group will need to track the development of the realization with the implementation group. They should track the progress every week and estimate the progress.

8. Estimation

In this stage, the authority group should assess the project after it has been done. They should see if it has met the goals that they set.

VI. PERFORMANCE ANALYSIS

The Figure shows ERP Software Organization that the companies have agreed very much that the ERP has helped them to gain improved teamwork, enhanced announcement, and improved competence. Most companies agree that the ERP has helped reasonably in lesser working costs, growing profits and gaining advanced profits. Hence companies have gained insubstantial benefits more substantial benefits.

<table>
<thead>
<tr>
<th>Categories</th>
<th>Agree Slightly</th>
<th>Agree Reasonably</th>
<th>Agree Entirely</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improved Teamwork</td>
<td>4.3</td>
<td>2.4</td>
<td>1</td>
</tr>
<tr>
<td>Greater Flexibility</td>
<td>2.5</td>
<td>3.7</td>
<td>2</td>
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<tr>
<td>Improved Competence</td>
<td>3.1</td>
<td>1.8</td>
<td>2</td>
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<tr>
<td>Lesser Working Costs</td>
<td>4.5</td>
<td>2.8</td>
<td>2</td>
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<tr>
<td>Growing Profits</td>
<td>3.9</td>
<td>2.6</td>
<td>1</td>
</tr>
<tr>
<td>Enhanced announcement</td>
<td>3</td>
<td>4.2</td>
<td>1.5</td>
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Table.1 ERP Software Organization

Fig.8 ERP Software Organization Statistics
VII. CONCLUSION

The paper has discussed numerous impacts of the ERP system. The impacts are managerial and operational. The paper has proposed the Success Scheme. The Success Scheme consists of eight stages. The scheme was obtainable and converse in a graduate-intensity class, and a questionnaire was conducted. After the ERP software Organization analysis of the survey, some adaptation on the scheme was made. Hence companies have gained insubstantial benefits more substantial benefits. Implementing the scheme in an actual project to test its efficiency can improve the scheme, as well as improving the Success Scheme to involve more certain feature of the ERP project, such as customization.

REFERENCES


