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Process Digitalization and the Right ERP Selection: A Path to Enhanced Efficiency, Resource Optimization, and Reliable Management Reporting

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Abstract

In today's agile business environment process digitalization becomes a vital catalyst for increasing operational performance, decreasing expenses and finally contributing to sustainable development. Digital technologies have been integrated into the business process of organizations so as to streamline operations and adopt to changing market demands. This transformation is centered on the choice and execution of Enterprise Resource Planning (ERP) system, which is pivot for integrated business management. ERP systems enable organizations to optimize resources, improve management reporting as well as support decision making by providing real time insights of core processes. This abstract suggests the deep connection with process digitalization and ERP selection for converging process of operational excellence.

Having more than 22 years of experiences in ERP system implementation across different sectors (water management, wastewater treatment and ports logistics) and having led the implementation of Oracle, Microsoft Dynamics solutions, I will draws some of lessons learnt. Not only have these implementations streamlined the business processes but they have also given organizations reliable data story for the management reporting. Accurate and timely reports are crucial to decision making and planning to make an effective response to challenges and pressures in a competitive environment. This experience demonstrates how carefully crafted selection of ERP can make digitalization worthwhile.

The broad objective of this paper is to showcase how a right ERP system implemented correctly into the business processes leads to resource optimization and increased efficiency. A good management reporting guarantees that the reporting is accurate and actionable therefore companies can be able to achieve better visibility on operations and performance which eventually leads to better performance and long term sustainability. The findings of this dissertation will constitute a starting point for organizations aiming to leverage process digitalization and utilize ERP solution in striving towards increased operational capabilities and resilience in face of constantly changing business environment.



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INTRODUCTION

Process digitalization is very important in today's changing business environment to reduce the cost, improve operational efficiency and facilitate long term growth. However, the central role of ERP systems in these other transformations is most evident in the area of business process integration where they integrate core business processes and provide real time insights into operations (Gupta and Kohli, 2006). Digitalization and ERP systems are known to be able to provide management reporting, resource optimization and ensuring reliable decision making in an organization (Nah & Delgado, 2006).

During my 22 years of experience in successful ERP implementation in various sectors such as water, wastewater, and ports logistics, the one where I played a part in ERP deployment—such as Oracle and Microsoft Dynamics (Al-Mudimigh, Zairi, & Al-Mashari, 2001)—I share hereunder some of the ERP implementation best practices. It is very important that these implementations contribute to the optimization of business processes, improvement of management reporting, and increase of the reliability of resource, all of which are the foundation of achieving the operational excellence (Karan et al., 2023).

Fig 1

ERP Systems in Business Transformation

Business Process Decision Operational Management Resource Integration Reporting Optimization Making Excellence Achieves high Integrates core Provides insights Enhances resource Supports informed processes for for decisionallocation and and reliable standards of efficiency making utilization decisions performance



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What is Process Digitalization?

Digitalization of process means the incoporation of digital technology in order to improve the operation and the automation of business (Davenport, 1998). Digitalisation allows companies to deal with data more efficiently (e.g. faster), the communication is easier and the decisions allowed to be taken faster, than in paper based or manual processes (Rosemann& Wiese, 1999). Specifically, process digitalization involves the following:

- Automating repetitive: it automates repetitive tasks like data entry, reporting, and customer management which decreases human error and allows us to spend valuable resources (Velosio, n.d.).
- Consolidating data into digital format improves the business's ability to access real time information anywhere, to make better decisions (Hitt, Wu & Zhou, 2002).
- Drysort also mentions that Digital tools will encourage collaboration as teams will be able to share documents, track progress and communicate via different platforms in real time (Seddon&Kiew, 1996)Common enhancements to customer service: Companies can provide customers with a seamless experience by being available digitally at a faster pace
- and with a better service (Somers, & Nelson, 2001).

In order to increase profitability and operational agility, businesses are required to adapt the phase of digitalization (Zhang, Lee, & Huang, 2005).

ERP and Its Role in Process Digitalization

Processes digitalization receives its backbone from Enterprise Resource Planning systems (ERP) that are integrated by the main business function, such as finance, human resources, supply chain, operations, sales, and customer service, into a unified platform (Frantz & R, 2002). ERP systems achieve this by automating data flow across other departments as all departments can track and optimize resources, generate up-to-date reports and make dependable data driven decisions (Markus & Tanis, 2000).

Some important benefits of having Process ERP systems include:

- An integrated data platform that brings all organization's relevant data (from departments) in one, centralized location (reduces silos), so everyone can access and work with the latest, relevant information from anywhere in the org (Alavi&Leidner, 2001).
- ERP systems allow managers and decision makers have real time access to data to track key performance indicators (KPIs) and business metrics as they happen (Davenport, 1998).
- Integrated data and analytics helps decision-makers to make timely and informed decision which act as a driver of operational efficiency and long term growth (Gupta &Kohli, 2006).
- **Visibility:** An ERP system provides the entire ecosystem of the business with improved visibility since the ERP system develops better cohesiveness and alignment of where the organization is headed (Nah & Delgado, 2006).



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Fig 2

Benefits of Process ERP Systems



The key to the success of ERP in process digitalization is its ability to improve management reporting, optimize resources and reliability in business operations.

Table 1: The Key Aspects of Process Digitalization and ERP Systems table

Aspect Description



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Automating Routine Tasks	Reduces human error by automating data entry, reporting, and customer management (Velosio, n.d.).
Improved Data Accessibility	Consolidates data into a digital format for real-time access, aiding decision-making (Hitt et al., 2002).
Collaboration & Communication	Enhances team collaboration through document sharing and real-time updates (Seddon&Kiew, 1996).
Enhanced Customer Service	Offers seamless experiences via digital channels for faster order fulfillment and invoicing (Somers & Nelson, 2001).
Centralized Data Management	Stores all relevant data in a single platform, ensuring accuracy across departments (Alavi&Leidner, 2001).
Real-time Insights	Allows tracking of KPIs and business metrics as they happen (Davenport, 1998).
Enhanced Decision-Making	Facilitates timely decisions based on integrated data and analytics (Gupta &Kohli, 2006).

LITERATURE REVIEW

This is due to the fact that digitalization of process has become essential for improving operational efficiency, reducing cost and long term growth perspective (Gupta &Kohli, 2006), in today's dynamic business environments. This transformation is centered on the usage of Enterprise Resource Planning (ERP) systems that integrate the basic business activities and real time operation reactions (Nah & Delgado, 2006). These systems provide a broad approach to resource management, increase in the level of management reporting and formation of reliable decisions.

Understanding Process Digitalization

Digitalization of the processes means using digital technologies to improve and automatic business processes. However, the transition to digital solutions from manual processes enables businesses to advantageously use software tools for better data processing, communication, and decision making (Davenport, 1998). The key areas of process digitalization are automating the routine tasks, making the data accessible, promoting collaboration among the team members, and improving services. (Velosio, n.d.) For instance, data entry and customer management can be automated, and this enhances the reduction of human error and frees up certain resources (Hitt, Wu, & Zhou, 2002). With better access to data, businesses are in possession of real time information at any location in order for them to make informed decisions (Seddon&Kiew, 1996). It also allows the collaborative work of teams where everyone can collaborate with the help of digital tools and can share the documents and communicate properly with one another through different platforms (Somers & Nelson, 2001).



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The Role of ERP Systems

Business processes digitalization is embodied by ERP systems which integrate the areas of business: finance, human resources, supply chain, operations sales and customer service into one (Frantz & R, 2002). ERP systems basically automate flow of data from one department to another accomplishing tracking of resources, reporting and decision making. A centralized data management method, real-time insights, better decision making, and providing improved visibility are other key benefits ERP systems offer (Alavi&Leidner, 2001). Real time insights enable managers to monitor the occurrence of key performance indicators (KPIs) while keeping the entire organization 'on beat', by working with accurate and up to date information as opposed to siloed data management, and that centralised data management reduces silos (Davenport, 1998).

Enhancing Management Reporting

One of the most critical areas where ERP system's value is demonstrated is with management reporting. An oft mentioned headache for businesses is to make sure that its reports are accurate and timely. In fact, traditional reporting methods depend on fragmented data which makes data collection processes inefficient and sometimes the delayed decision making (Karan et al., 2023). To overcome this challenge, ERP system utilizes real time data of all departments to collate and provide management with updates on day, week, month and quarter basis (Markus & Tanis, 2000). The immediacy of this process reduces the risk involved with old or Incomplete data, which means that decision makers have the most recent insights that will help them make a strategy.

Fig 3





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Modern ERP systems also let management to configure dashboards and reports based on particular KPIs and metrics, so that they can view this crucial data fast, without sifting through masses of it (Hitt et al., 2002). Another benefit of this is consistency among departments, since integrated ERP guarantees that all departments are working with the same dataset and, thus, it will provide a coherent and reliable management reporting (Al-Mudimigh, Zairi, & Al-Mashari, 2001). On the other hand, this consistency helps people trust the reports, and in the other way around, helps make the informed decisions inside the organization.

Resource Optimization through ERP

As the organization wants to minimize/the waste or maximize usage of available resources in a process, resource optimization becomes a core goals of process digitalization. The provision of the ERP systems enables the firm to utilize the firm's human resources, materials, inventory and capital, which helps ease streamlining and optimization (Gupta &Kohli, 2006). ERP systems integrate financial and operational data and this allows the organization to have a holistic view of its costs across departments and as such an organization can proactively manage its expenses (Hitt et al., 2002).

For example, an ERP system can monitor inventory levels in real time, meaning that the levels of stock are maintained at their optimum to meet the customer demand without excess of overstocking and without unnecessary stockouts (Karan et al., 2023). Moreover, ERP systems help to maximize labor resources by recording employee hours, skills and availability thus ensuring that the correct professionals are allocated to the right tasks on time (Somers & Nelson, 2001). The capability for this type of application is essential to increase workforce productivity and to reduce operational costs.

In short, digitalizing process as well as implementing ERP systems helps organizations to increase operative efficiency and make better decisions in the face of fierce competition. An ERP system centralizes data, and offers real time insights on the business and enables organizations to optimize their resources, enhance management reporting and hence reduce costs involved in decision making. Businesses cannot afford to miss the opportunity to adopt digital processes due to their importance to the sustainable growth and operational excellence of the company.

MATERIALS AND METHODS

Research Design

A qualitative research design is used in this study to examine the implementation and impact of Enterprise Resource Planning (ERP) system in different sectors, water, wastewater and ports logistics. Moreover, by dint of its qualitative nature, the approach enables an in—depth analysis of the challenges, benefits, and the best ways to achieve digitalization of processes by means of ERP implementation.

Study Participants

The participants for this study were chosen because of their long experience in implementing ERP system in various industries. With this regard, purposive sampling method was used to identify key stakeholders, which were project managers, IT specialists, and end users who had been directly involved



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in the ERP implementation. The organizations that were part of the sample were those in which professionals from these organizations have implemented ERP solutions such as Oracle and Microsoft Dynamics. The study recruited a diverse total of 15 participants of diverse experience and perspective.

Data Collection

Semi structured interviews were the method of data collection as they allow for a lot of flexibility to explore participants' thoughts and experiences in detail. The interview was conducted in person, between 45 minutes to 1 hour, depending on the participants' availability and preference; the interview was conducted also via video conferences. An interview protocol with openended questions aimed at gaining a complete answer to those thematic areas was used to guide the interviews.

Implementation Process: Participants were asked about various aspects associated with ERP system planning, execution, and post implementation.

- Challenges Encountered: The challenge lies in answering questions that revolve around finding
 out the key challenges encountered during implementation, such as resistance on the part of those
 getting on board with the change, issues related to migration of data and training of employees as
 part of the changes.
- Benefits that were realized: The positive outcomes that the participants observed as a result of ERP implementation were mentioned including higher operational efficiency, higher reporting accuracy, resource optimization, etc.

There is a discussion about the strategies that participants have used to overcome challenges and to make sure ERP deployment is successful.

Participants' consent was audio recorded during all interviews, after which they were transcribed for analysis.

Data Analysis

The interviews transcripts were analyzed through thematic analysis. The effectiveness in identifying and interpreting the patterns (themes) in qualitative data was the reason for the selection of this method. The process of the analysis was then followed in six phases according to Braun and Clarke (2006).

- 1. The researcher familiarized with the data by reading and re-reading the transcripts in order to understand the content in depth.
- 2. Initial Codes Creation: Initial codes were developed through important statements and replies related to the areas of study.
- 3. Codes were put into larger themes, which compressed the participants' experience of the ERP implementation.



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- 4. The identified themes were reviewed and refined to guarantee that they appropriate captured the data and were constant.
- 5. Each theme had a clear definition and a name that summed up the heart of its message and meaning.
- 6. The conclusions from the interviews were written up into a report that summarised the takeaways from the interviews and what the implications were for ERP implementation.

Ethical Considerations

Data collection into this study was moderated by institutional review board (IRB) ethical approval. Participants were told about the study purpose, procedures, and their freedom to withdraw from the study at any time with no negative repercussions. All participants provided informed consent, permitting their data to be used so long as their identities became deidentified. In reporting findings, participants were given pseudonyms in order to maintain their anonymity.

Limitations

This study gives useful insights on ERP implementation, but there are also some limitations of this study. As the nature of the research is qualitative, the findings may not be generalised to all organizations and sectors. Moreover, using self reported data may not be positive as people might report what their experiences have been, in their favor. It would be beneficial for future research to approach with a mixed methods method by combining qualitative interviews and quantitative surveys to increase the generalizability of findings.

The materials and methods we detail in this paper provide a solid platform from which to comprehend the introduction of ERP systems within different sectors. The research uses a qualitative approach to demystify the experiences of the participants demystifying the challenges and the benefits of process digitalization. The results will also help in supply current literature regarding ERP systems and provide the best practices in future implementations.

DISCUSSION

This study's findings are of significant importance to the implementation of Enterprise Resource Planning (ERP) systems in the water, wastewater, and ports logistics sectors. There were several key themes that participants identified including those related to the challenges of implementation, benefits received, and best practices that occurred during program implementation.



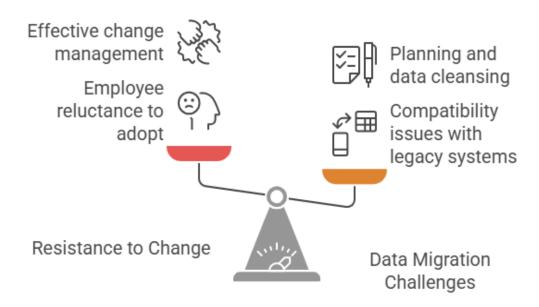
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Challenges of ERP Implementation

Resistance to change was identified by participants as one of the most prominent challenges exactly as in the case of most other organizational transformations. Employees do not want to embrace new systems since they do not know what is going to happen or feel like their job might be at stake. It can delay implementation of the initiative and also results in suboptimal utilization of the ERP system. From participant observations two core observations were noted, effective change management strategies such as effective communication and complete staff involvement in the implementation process were crucial in curbing this form of resistance. Along with training programs that smooth out a transition, it is important to provide employees with sufficient training programs in order to build their confidence and competence in using the new system.

The second was also data migration, which is one of the big things they had to take on. The participants found difficulty turning existing data in to the new ERP system and especially turning the legacy system into the new ERP system mainly because of compatible issues. The cruciality of the Planning and Data Cleansing before migration arises from these issues.

Fig 4



Balancing ERP Implementation Challenges



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Benefits Realized from ERP Systems

Participants, however, take no prisoners; they unanimously identified the huge dividends associated with installation of ERP systems. One of the most noted advantages of this method was increased operational efficiency. Organizations automated routine tasks and brought about integration of the various business functions so that processes were streamlined, duplication was eliminated, and errors were reduced. It was also observed by participants that this efficiency allowed them to save time and cost and allocate resources better.

Another critical benefit of the automated processes was that it became a very important communication tool for management reporting. Access to real time data and capability to generate accurate reports have made better decision possible. They stressed that such an integration across departments helps give a 360 degree view of operations and lets them track KPIs, and act proactively to any trends that are on the rise. Among its other benefits, this capability was about improving transparency and supporting a culture of accountability within organizations.

Best Practices for Successful Implementation

The study presents best practice for improving ERP implementation outcomes. Above all, it was recognized that communication is the cornerstone for effective adoption. Keeping all participants or stakeholders informed makes participants be aware of what is happening as regards the process, from the implementation process to the process outcomes, as well as what role they play in the framework design. By being transparent as much as possible, you are building a trust factor and you will find buy in from the employees to change, which is something you need to get over resistance of change.

One of the best practice was determined to be the need to involve end users early in the implementation process. Organizations can understand by engaging anyone who is going to use the system, those users' needs and preferences. With this user centric approach, the system design can be better designed in addition to increase the overall satisfaction and adoption rate Image.

Lastly, it was deduced that continuous support and training of the system would be necessary to maintain its effectiveness. Participants spoke about the need for running training programs that could continue to update themselves with respect to the changing business needs and advancements in technology. One commitment that makes sure that the users are proficient and confident in using the ERP system is through their employees development.

On the other hand, the implementation of ERP systems offering both challenges and opportunities for the water, wastewater, and ports logistics organizations. In spite of the challenges of resistance to change and data migration, the advantages gained with the new solution are improved operational efficiency and better management reporting. Adopting suitable practices like interpreting users, communication and after implementation assistance in suitable ways allows organizations to successfully implement ERP that is complex. In doing this, this study contributes to the literature on the topic by furnishing another perspective on these dynamics and makes practical suggestions to companies seeking to use their ERP systems for enhanced performance and competitiveness.



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CONCLUSION

The present study offers insights regarding the ERP implementation in the water, wastewater, and ports logistics sectors. In the identification of critical challenges, benefits and best practices on ERP deployment, we did qualitative interviews with key stakeholders.

Obstacles cited during implementation by the participants were resistance to change and data migration. All these will necessitate the improvement of change management strategies such as providing training, clear and communicative training programs to cushion the effected employee during the change. To maximize the potentials of ERP systems, overcoming these hurdles is very important.

However, the benefits of ERP systems were well understood despite the challenges. As such, the key advantages were improved operational efficiency and enhanced management reporting. Organizations can automate processes, integrate different functions in an organization, as well as streamline processes to decrease the number of errors and make decisions based on real-time data. Adopting a holistic view on operations, and thus holistic operations, brings accountability and helps in proactive management.

In addition, the study highlights several best practices that would impact the success of ERP implementation. Participating in the design plays a vital role in fostering acceptance and reducing the effectiveness of the system over time as effective communication, elementary participation of end users and sustentation in support and training are needed for that. Optimization of ERP investments is possible through the involvement of employees in the process and by providing continuous opportunities for development.

Overall, the road to implementing ERP may be painful but the potential benefits include better efficiency, reporting, and decision making that ensure it is worth all the trouble. Finally, organizations that will commit to supporting their employees throughout the transformation process and will adopt best practices during the course of the implementation are more likely to yield successful outcomes, and ultimately the doors will be opened to other opportunities for long term growth and competitive advantage in a highly challenging business environment.

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