



The Effect of Electronic Management on the Production System Just in Time Field Study on Workers in the Ready-Made Clothes in Egypt

Ibrahim Shabana

PHD Researcher in Business Administration, Egypt

Abstract:

There is no doubt that the importance of electronic management in its ability to provide services that are characterized by speed, efficiency and efficiency and its ability to keep pace with the tremendous development in information systems technology so that it has become a necessary requirement to keep pace with modern technology and accordingly the interest in developing the production system in the specified time appeared linked to activating the administration. The electronic system in various levels, especially the timely production system, as relying on the on-time production system helps to make important decisions that lead to improving the performance of production organizations and be a catalyst for performing the required work on time and with high efficiency. Therefore, we try to We define the research problem that revolves around this question, to what extent does electronic management affect the Just-in-Time Production (JIT) system in the garment industry in Egypt?

Keywords: Electronic Management, Just in Time (JIT)

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I. INTRODUCTION:

Beginning in the twenty-first century, the world knew a set of technological developments that had a vital role in changing the pattern of human life and significantly changed several aspects, including economic, industrial, and productive. These developments imposed by technology made the world seem like a small village, and accordingly modern concepts have been replaced by old concepts, including what is known. With electronic management, as it has become an obligation for organizations today to be well aware of the importance of change and development and keep pace with scientific development in general and technical progress in particular if they simply want continuity and survival, but if they desire excellence, development and growth, they must be the forerunner of any new discoveries and knowledge of modern technology through encouragement. The development, innovation and introduction of new ideas among workers in organizations, therefore, activating electronic management over the development of production has become one of the most prominent elements of modern management with the tremendous progress in information and production systems and the sweep of the world so-called the era of globalization, and there is no doubt that the activation of electronic management and its link with the production system at the specified time Lead to effective upgrading and continuous improvement b Production requirements in a way that leads to improving the performance of productive and industrial organizations in the long run. Development of electronic management and the production system are two things necessary in achieving the goals of the organization, whether its industrial or service activity, as this helps to improve the level of the organization's performance and continuous improvement of production processes and to carry out the necessary research to provide information in a manner. Urgent and even help in identifying and addressing recurring administrative and productivity problems and bottlenecks.

With the great development in the industrial and production environment, it was necessary to develop administrative systems in order to respond to the requirements of the modern stage by using sophisticated and modern computers in order to fully manage the production processes and one of the most prominent production

systems that appeared is the Just-in-Time Production System (JIT) that contributed to reducing costs and raising Efficiency of performance and production (Ahmed, 2017).

Accordingly, the interest in developing the production system on time began to be linked to the activation of electronic management in various levels, especially the on-time production system for household electrical appliances, as relying on the production system on time helps to make important decisions that lead to improving the performance of the organization Productivity and be a catalyst in performing the required work with high efficiency.

The connection of the production system on time to electronic management is considered one of the most prominent modern systems in industrial and productive companies as it is considered the fundamental change in the concept and methods of administrative work, as it requires a complete re-engineering of the administrative work system as well as the presence of expertise, specializations and basic technical skills.

To implement labor policies within productive organizations, as this contributed to reducing costs, raising the efficiency of performance, expanding production and improving the performance of workers in the organization by using advanced electronic management in front of the expansion and diversification processes in production to face the sharp competition in the markets in order to run the production process in order to ensure the flow of all information. And the enormous data from the different units, their operation and their use in developing their performance in a fast, appropriate and specific manner (Abdul Mohsen, 2018).

Where previous studies showed the inability of local production companies to enter the field of actual and real competition with other international companies operating in the same productive sector due to the high cost of their production. Therefore, this study focused on achieving the objectives of using the production system on time and its link with electronic management in order to reduce Product costs by reducing inventory cost to the lowest possible level and reducing lost and defective percentage of products.

Therefore, the proposed study seeks to identify the appropriateness of the impact of electronic management on the production system at the specified time in order to improve production processes, which leads to the need for effective practical and administrative development procedures that contribute to the process of continuous development and improvement in order to achieve high profit rates and maintain the competitiveness of companies and productive factories. Especially in ready-made clothes factories, where this study focused on military factories in order to demonstrate the impact of electronic management on these factories after developing them from traditional management to electronic management, as well as knowing the level of development in production using the production system on time and the level of sales percentage as well as the level of the percentage of profits and the level of customer confidence In the efficiency of those products from garment factories in the Arab Republic of Egypt.

II. CONCEPTUAL BACKGROUND

After reviewing many previous studies related to the subject of the study, the researcher sees the possibility of dividing it into three main axes, the first of which includes the literature on electronic management, its requirements and elements, and the second includes the previous literature on the production system at the specified time and knowledge of its characteristics and benefits, and the third deals with the previous literature that clarifies the relationship between the impact of electronic management on On-time production system.

The first trend in the literature on electronic management:

As this literature was concerned with knowing the concept of electronic management, stating its requirements, knowing its obstacles, determining its dimensions, elements, and importance, and in this context the following studies were addressed:

1- The study (schreder, 2015): titled the impact of electronic management on the development of the organization's employees' performance in New Zealand, as this field study contained a sample of 120 individuals, including 15 managers and deputies, and 105 employees using the descriptive approach. This study aimed to integrate traditional management with its paper and electronic means. With an indication of the role and importance of electronic documents in their current management and how to use them in interviews and collecting data and information with clarification of the importance and role of increasing integration and parity between the paper and electronic systems and working on developing electronic systems so that they are more effective. The necessity of applying electronic management in order to achieve the highest rates of production and to maintain competition in the markets.

2- A study (David, 2015): entitled the impact of electronic management on improving production through the use of modern information technology means in Nigeria, as this field study emphasized as a tool for collecting

information and data on a sample of 140 individuals chosen randomly in Usen State, Nigeria, using the descriptive and analytical method. This study is to know the views of employees and administrators towards the use of information technology in electronic management and to identify the positive trends of some managers and employees by using information technology in development. The study concluded that there was no improvement in production due to a clear shortage of devices, tools and networks in the application of electronic management, so adequate funding must be provided to supply the organization with modern communication networks for the Internet.

3- A study (sandh, 2017): entitled "Identifying the expectations and opinions of citizens about electronic services in Pakistan". This field study aimed to identify citizens' expectations about the level of electronic services in Pakistan and to identify the different means through which citizens can interact with electronic services using a descriptive approach. Analytical analysis in the study by conducting interviews on a sample of 133 people. The study reached several conclusions, the most important of which is that citizens are not interested in using electronic services. What is required is to stimulate an increase in citizens' use of e-government in order to achieve the desired benefit from electronic services.

4- A study (super kumar, 2018): entitled the effect of electronic management in increasing production rates, as this field study focused on a sample of 200 individuals, including 20 managers and deputies, and 180 employees using the descriptive approach, as this study aimed to integrate traditional management with its electronic means with an indication of the role and importance of electronic documents and how they are used in interviews and collecting information and data. The study focused on the interest in developing electronic systems so that they are more effective, as well as attention to the need to implement electronic management in order to achieve the highest rates of production and to maintain competition in global markets.

5 - A study (Franko, 2018): entitled The role of electronic management in achieving the goals of the organization. This field study contained a sample of 240 individuals, including 30 managers and deputies, and 210 employees using the descriptive and analytical approach study. This study aimed to know the concept of electronic management through its various dimensions (The technical component - the human element - the physical component) Then the study dealt with the impact of the application of electronic management through the availability of the technical component of networks and modern and advanced devices and programs within the organization. The study found the importance of identifying and knowing the requirements of electronic management, as well as knowing the most important obstacles in the application of electronic management through the human, material and technical component in order to achieve the desires and requirements of customers and increase the profitability of the organization and its continuity in the market permanently.

6-The study (Larry Massen, 2019): - entitled The role of electronic management in developing administrative work. This field study contained a random sample of 60 individuals, including 10 managers, 50 employees through the descriptive approach. This study aimed to discuss the binary and eight numbering systems, constants and changes. And converting systems to electronic systems in order to develop traditional management into electronic management and to know the requirements that must be met in administrative organizations before the application of electronic management, then identify the obstacles that prevent the application of electronic management in the administrative and production sectors of the organization in order to save time, effort and cost and achieve the highest rates of sale of products the organization. The study found the importance of the electronic administration's contribution to the development of administrative work and the identification of managers' proposals to activate and contribute to electronic management in developing administrative work and reducing its obstacles.

7- The study (Al-Zoghbi, 2015): entitled The Impact of Electronic Management on the Improvement and Development of Production, as this field study contained a sample of 70 individuals, 5 managers, 5 MPs, and 60 employees using the descriptive approach. This study aimed to clarify the concept of e-management and its importance. And its requirements for improving and developing production as the success of applying electronic management gives better administrative decisions than traditional ones. The study found that electronic management applications contribute to reducing the effort exerted in completing the required work in the specified time and ensuring the capabilities of electronic management applications in anticipating the required production in the future and determining the required quantities.

8- Study (Al-Qahtani, 2015): entitled the effect of electronic management in achieving job satisfaction on workers in organizations, as this field study contained a sample of 100 individuals, including 20 leaders and deputies, 80 employees and workers using the descriptive and analytical approach. The study aimed to identify the science of components fields Electronic administration, the requirements for its application, the obstacles that prevent its application in Saudi public prisons, and the identification of ways to face these obstacles in prisons. The study concluded by identifying the most important positives that the electronic administration

contributes to achieving it with a high degree from the point of view of the study in the speed of returning to previous data and information and saving time and effort for workers in the prison sector with high efficiency.

9- A study (Hamed, 2016): entitled The role of electronic management in increasing the effectiveness of administrative decisions in productive organizations, as this field study contained a sample of 30 individuals, including 5 managers and representatives, 25 employees using the descriptive approach. The study aimed to identify the effect of management components Electronic decisions regarding the effectiveness of decisions in the Ministry of Interior in the civil side in facilitating procedures for citizens in an easy and fast way. This study reached the importance of having quick information and data with the Personnel Affairs Department represented by the middle and upper management of the Ministry of Interior in the civil side, knowing the components of electronic administration and the requirements for its success and its application with precision. The study also found that the use of electronic management increases the effectiveness of decisions at a high level in all Administrative areas.

10- A study (Quality, 2016): entitled the effect of electronic management on improving the quality of traffic services, as this field study contained a sample of 20 individuals, including 3 managers and 17 employees, using the descriptive and analytical approach. The quality of traffic service using the method of the comparative study between the Cairo Traffic Department and the Dakahlia Traffic Department. The study found that there are significant differences between the dealers with the Cairo Traffic Department and the Dakahlia Traffic Department regarding the extent to which the requirements for the application of electronic management are provided, as well as clarifying its relative importance on the level of quality of services with differences in the arrangement of the most important requirements in the two departments.

11- A study (Saleh, 2016): entitled The Impact of E-Management Application on Improving the Overall Quality Level of the Organization, an Empirical Study on Workers at Zagazig University, as this field study contained a sample of 1,470 academic and administrative employees at the university in order to identify the extent of the availability of electronic management dimensions in services. The university provided at the University of Zagazig and knowing the level of application of the dimensions of total quality management and getting to know the level of these services provided, and the researcher used the descriptive and analytical approach. The study reached several results, the most important of which is the availability of the dimensions of electronic management with a moderate degree, with a direct correlation between electronic management and the level of service quality, as well as the need to ensure that the basic requirements of the e-government are provided.

12- Study (Mamdouh, 2017): titled Requirements and Obstacles to the Application of Electronic Management, as this field study contained a sample of 150 individuals working in the electronics factory using the descriptive approach. This study aimed at the absence of an application of electronic management indicators and that it does not see it in the need to activate modern technology in Development of administrative work with some obstacles in activating the Internet service in administrative and production development in the factory. The study found that there are some negative effects that hinder the process of activating the role of electronic management in administrative and productive development, especially in the administrative and technical side, with the absence of a strong relationship between the use of the Internet and activate the success of electronic management process.

13- Study (Al-Baroni, 2017): entitled The role of electronic management in increasing the efficiency of administrative leaderships in the state of Libya, as the field study contained a sample of 80 individuals, including 10 managers and deputies, and 70 employees. This study aimed to analyze the nature and direction of the relationship between the level of qualification and Training of administrative leaders and the level of application of electronic management in the organizations of technical and technical education in the State of Libya. The study found a positive relationship between the level of qualification and training of administrative leaders and the level of application of electronic management in organizations. Then the study demonstrated the weakness of the level of qualification and training of current administrators, and that the level of application of electronic management appeared medium and very modest.

14 - A study (Ahmed, 2017): entitled The Impact of Electronic Management on Improving Advanced Administrative Processes, as this field study contained a sample of 60 individuals, including 12 managers and deputies, and 48 employees through the use of the descriptive approach. This study aimed to determine the impact of electronic management components on Improving and developing the productive process within the organization. The study found that there is a positive relationship between the level of qualification and training of the administrative leaders of the organization and between the level of electronic management application and the weak level of qualification and training of administrative personnel within the organization as the weak level

of application of electronic management of the organization is the result of the lack of some advanced and modern computers.

15 - Study (Al-Abed, 2019): titled The Impact of Electronic Administration Components on the Effectiveness of Decisions in the Public Sector at the Ministry of Interior in the Civil Side of Gaza, this field study contained a sample of 95 persons using the descriptive approach relying on sources of information collection and primary and secondary data. This study points to the importance of identifying the effect of electronic administration components on the effectiveness of decisions in the public sector in the Ministry of Interior in the civil sector in Gaza. The study reached several results, the most important of which is the necessity to train and qualify employees to implement electronic management and follow up the development and modernization of modern information technology infrastructure to ensure the validity of the application of electronic management and the need to use it in increasing the effectiveness of decision-making in the upper and middle management of the Ministry of Interior, as well as knowing the requirements for its application and its success.

The second trend is the previous literature on the Jit system:

As this literature focused on the concept of a timely production system, as well as knowing the importance, benefits, characteristics, dimensions and advantages of applying this system in the manner of the following studies:

1- Study (treuvely yaung, 2014): entitled the effect of the production system at the specified time on administrative decision-making in industrial organizations, as this field study contained 8 industrial companies using the descriptive approach. This study aimed to ensure that success in developing production at the specified time depends on coordination Projects that take place in some upper and middle departments and the interconnectedness between them with knowledge of the various reasons for success in developing production at high speed. And lead the organization to create a better environment for competition to avoid failure. The results reached the importance of implementing the production system on time and supporting the higher management of this system in terms of morale, technical and material.

2- The study (Elwood, 2016): entitled The effect of the timely production system on increasing the products of industrial organizations, as this field study contained 6 productive companies using the descriptive analytical approach and this study aimed to support industrialization to serve as effective enablers for development and change, as well as the discussion of product development. And manufacturing systems and linking them to the development witnessed by nature, introducing new and different products, and providing new perspectives on planning development and production processes at the specified time. The results were found in determining the difference in the neutral products of the production process, selecting the treatment for them, and comparing them with the traditional production methods.

3- A study (gregor von, 2018): entitled The effect of the production system at the specified time on production planning for industrial companies, as this applied study contained a sample of 15 industrial and productive companies in which the descriptive approach was used. This study aimed at the importance of development in production management systems through Planning and controlling production for those in charge of the production process and knowing the actual and real diagnosis about the implementation of maintenance of machinery and equipment and knowledge of service engineering based on operable manufacturing capabilities with the impact of priorities on the waiting time for production. The results revealed the importance of knowledge-based production planning and control in increasing the rate of improvement in production quality on time.

4 - A study (Lebanc, et. 2018): titled The role of a timely production system in achieving customer requirements in hospitals, as this field study contained a random sample of 120 of them, 20 doctors, 20 nurses, 80 patients, using a form Simulation in the descriptive and analytical approach in order to create a correct model for the use of therapeutic resources for the two worlds, relying on the (JIT) system in hospitals and emergency cases departments through the proper utilization of therapeutic resources to reduce costs, exempt patients and take care of them with the highest levels of care. The study found the importance of facilitating the work of hospital emergency departments, reducing overcrowding, providing suitable beds for patients, reducing waiting time, providing the necessary number of doctors and nurses, and making optimal use of available resources in hospitals.

5- A study (Nasouhi, 2012): entitled The effect of the production system at the specified time in controlling the quantities of inventory in industrial organizations, as the applied study contained 51 industrial joint-stock companies in which the descriptive approach was used. This study aimed to evaluate the production system at the specified time in industrial companies as well as the problems facing the application of this system.

These results concluded that there is a reasonable application of the production system at the specified time in these companies in addition to that the most important difficulties facing this system are the ability to control the delay in the process of shipping the product as well as lack of good familiarity with the application of this system.

6 - Study (Al-Yaqoubi, 2013): entitled The role of the production system at the specified time in increasing the profitability of industrial companies, as the field study contained 10 industrial companies with the largest in capital. In this study, the descriptive analytical approach was used. This study aimed to clarify the effect of applying the production system on The time limit depends on the profitability of the largest industrial firms in the capital in terms of the number of workers. This study reached a set of results, the most important of which is the effect of using the production system at the specified time on the profitability of industrial companies and the success of implementing the production system on time depends on the availability of the material element which is necessary for this success.

7- A study (Yahyaoui, 2014): titled The Impact of the Timely Production System on the Market Share of Productive Organizations, as this applied study contained 12 industrial and productive companies and used in this study the descriptive method and this study aimed to achieve the best productivity of the organization by presenting products in large numbers and A sophisticated and finding process of balance between supply and demand processes, which led to the emergence and doubling of products in the factory and used some successful models such as the (JIT) model, which is production on time with the use of the race against time through the development of the products needed to achieve the quality of products, which is the search for cost. Least production while caring for the product. The study concluded that the success of implementing the production system on time contributes to increasing the products and increasing the profitability of the company, as well as achieving the desires and requirements of the customers.

8- Study (Issa, 2015): entitled The effect of the production system at the specified time in improving the performance of workers in industrial organizations, as the field study contained 6 industrial companies using the descriptive approach and this study aimed to clarify the concept of performance according to the concept of efficiency in order to develop production in time What is specified although performance is the amount of resources used to produce and develop one unit of output and that performance is quality in time, cost and price to achieve the standards of competition, credibility, flexibility, creativity and reaction in order to achieve development in production with the performance related to the competitiveness of the institution in continuing in the desired form. Advanced and high efficiency. The study concluded that there are some obstacles to implementing the production system, represented in the absence of training, technical and qualification courses to implement this system in industrial companies.

9- Study (Al-Tayyib, 2015): entitled The Role of the Timely Production System in Reducing the Cost of Production for Productive Organizations, as the field study contained 11 industrial companies using the descriptive approach. The study aimed at the importance of quality control in order to develop production on time as well as reduce the number of units. Defective and loss rate while limiting the wasteful use of machinery, equipment, services and various resources while reducing the percentage of sales returns, supporting customer confidence in the organization and preserving the organization's reputation in the market. The study found the importance of implementing the production system on time in order to fully control the commodity stock in order to reduce wastage.

10- The study (Abu Al-Ela 2016): entitled The role of the production system at the specified time in increasing the revenues of productive organizations, as the field study contained 22 industrial and productive companies, using the descriptive approach. This study aimed at the importance of determining the prediction of the quantity of production in order to determine whether the volume The expected demand is sufficient to achieve the appropriate return on investment while achieving the expected revenues from the sale of the quantity of production. The forecasting of production is considered the starting point in planning and controlling production. The forecast contributes to achieving a balance between the demand percentage and the sales percentage to develop production in the specified time as the forecasting methods include qualitative methods. (Market study - salesmen estimates - product life cycle analysis) and quantitative methods such as (general trend - graphical method - simple and multiple regression - simple and multiple correlation). The study found the most important advantages that contribute to implementing the production system on time, to a high degree, in order to fulfill the customers' desires and requirements at the specified time.

11- Study (Youssef, 2017): entitled The role of the production system at the specified time in increasing the competitiveness of industrial organizations, as the field study contained 13 industrial and productive companies in which the descriptive approach was used. This study aimed at the importance and necessity of developing the production system and the importance of developing goods and services that are performed It leads to success

and in finding a good competitive position or it may lead to its failure and that developing production on time is the organizational part responsible for the production of goods and services that are consumed as it represents the most important part of the factory, as well as in reducing wasted time for workers and machines, raising the quality and efficiency of production and increasing the profitability of the factory. And reduce expenses. The study concluded the importance of the production system at the specified time in producing a product without errors or defects and to ensure that the production conforms to the established international standards.

12- Study (Al-Sawalmeh, 2017): entitled The impact of applying the production system on time on maximizing the profitability of productive companies. This study aimed to identify the effect of applying the production system on time to maximizing the profitability of production companies in Jordan using the descriptive and analytical approach. It consists of 10 production companies. The study found that there is a statistically significant effect between applying the production system on time in production companies and maximizing their profitability through reducing production costs and improving the quality of products. The study recommended the necessity of developing technological methods and expanding their use in production companies in line with the requirements of this system.

13- Study (Kasasbeh, 2017): titled Evaluation of the application of the production system on time, a field study on industrial companies for garments in Jordan. The study aimed to identify the results of the implementation of the production system on time as well as to identify the problems facing industrial companies in the field of clothing. This study, the descriptive approach, contained a sample of 15 industrial companies working in the field of clothing. The study showed that there is an acceptable application of the elements of the production system on time, represented in reducing waste, reducing stock, and paying attention to preventive maintenance of machinery and equipment. The results concluded that there are positive results from applying this system, represented in providing cost reduction in inventory, and there is a weak result in achieving the relationship between suppliers and companies.

14- Study (Abdel Mohsen, 2018): entitled The role of the production system at the specified time in increasing the volume of products for industrial organizations, as this applied study contained 5 industrial companies, using the descriptive analytical approach. The specified time, which is a comparison between purchasing and manufacturing, by purchasing some parts and goods from suppliers or by manufacturing them inside the factory in order to provide the material element in the production plan, although the increase in the volume of fixed costs affects the increase in the number of units produced, and this means how to manufacture the parts within Factory instead of buying them outside the factory. The study concluded the importance of increasing the volume of production and thus developing production instead of using stereotypes.

15- Study (El-Sherbiny, 2018) entitled The Impact of the Timely Production System on the Development of Industrial Projects, as this field study contained 10 medium and small industrial projects using the descriptive approach. This study aimed at the importance of developing the production of medium and small enterprises by encouraging banks to finance Small and medium enterprises with low interest rates and achieving financial advantages such as tax exemptions established from financing activities and organizing specialized exhibitions to promote and market new products. The study found the importance of developing production and medium and small enterprises in a basic way and providing the appropriate infrastructure for implementing economic projects at encouraging and competitive prices.

The third trend: the literature dealing with the relationship between the impact of electronic management on the production system at the specified time:

As this literature focused on clarifying the relationship between the production system on time by studying household electrical appliances and using the MRP system, as well as using it in developing and improving environmental production in factories.

1- A study (Obaidat, 2019): entitled the role of electronic management on the MRP production system in improving the performance of workers in industrial organizations, as the field study containing 7 industrial companies was included using the descriptive analytical approach. This study aimed at the importance of the material and human component of electronic management in developing MRP production, as well as full and comprehensive control over the inventory and reducing the percentage of lost and defective products, in order to increase the profitability of the factory, as well as raise the morale of workers and create a competitive advantage for the factory in the market and maintain the provision of hours, reduce unnecessary financial expenditures, as well as pay attention to providing spare parts for machinery and equipment. Inside the factory. The results reached the importance of controlling the output, the quality of sales and the level of inventory, as well as carrying out the weekly and monthly preventive maintenance of the equipment and machinery according to the maintenance plan, in order to maintain the production line, in achieving the factory's objectives in the future to preserve the reputation of the factory.

2- The study Kalyon Baskar (2019): entitled the effect of electronic management on improving environmental products in industrial companies, as this field study contained 4 environmental industrial companies in which the descriptive approach was used. This study aimed at the importance of the impact of electronic management on the development of environmental products through understanding Whether the company or factory displays its environmental products using modern electronic management in different ways in order to increase its environmental products and link them to the goals in achieving the desires and requirements of customers and working to improve the quality of environmental products in the factory. The results revealed the importance of saving time, effort and cost, as well as reducing the stagnant stock of products in order to increase the percentage of sales of products and to preserve the environment from any risks.

3- A study (HIROYUKI, 2019): entitled the effect of electronic management in improving production on time, a study on household electrical appliances factories in Japan, as this applied study contained 14 industrial and productive companies using the descriptive and analytical approach. This study aimed at the importance of the impact of electronic management in a system. Production on time applied to the ready-made garment industry, as this study reported on the importance of comprehensive inventory control in order to reduce the percentage of waste and defect, as well as the lack of stagnant stock in order to preserve the organization's reputation in the market. The results of the study reached the success of linking the electronic management to the production system on time for household electrical appliances, which contributes to increasing the company's profitability sales as well as achieving the desires and requirements of customers.

Commentary on previous literature:

There were many foreign and Arab studies that dealt with electronic management and the production system on time from scientific, technological and administrative aspects, and through the analysis of previous studies that were concerned with clarifying the concept of both electronic management and the production system on time with an indication of their importance, objectives, requirements and obstacles to their application, as well as knowing their advantages in government institutions and others Governmental and we draw the following conclusions: Previous studies dealt with the concept of electronic management as well as knowledge of its dimensions, which are (the technical element - the human element - the physical element). Dr. David stressed the importance of implementing electronic management in order to achieve the highest rates of production in the market, as well as Dr. Al-Zaini stressed the importance of the concept of electronic management with an indication of its importance in reducing the effort exerted in accomplishing the required work.

The previous studies indicated the importance of the production system on time and how to implement this system with an indication of its importance as well as defining its dimensions (saving time and effort - creating a competitive advantage - increasing profitability - comprehensive inventory control. MRP through the material component in developing this system as well as improving and developing production.

HIROYUKI's study demonstrates the impact of electronic management on improving production on time by application to home electrical appliances factories in Japan, explaining the importance of applying this system to increasing the percentage of sales and increasing the profitability of factories, and it was found that the most important results that the study agreed upon is that the implementation of the production system on time Linked to electronic management, it contributes to reducing costs, achieving customer satisfaction, improving product quality and increasing competitiveness. One of the most important obstacles to this system is a problem related to suppliers in terms of delivering them to the raw materials needed for the production process at the specified times. Therefore, the researcher focuses in his study on the importance of the impact of electronic management on the production system at the specified time for the field study on workers in ready-to-wear factories in Egypt.

Benefits from previous studies:

- 1- The benefit of the study in presenting the theoretical framework in the used references.
- 2- The previous studies have been used in determining and selecting the study curriculum.
- 3- The results of previous studies were used in explaining and clarifying the phenomenon of the research gap of the study
- 4- This study is considered one of the preliminary studies in determining the effect of electronic management on the production system at the specified time in household electrical appliances in military factories in Egypt.

III. THE RESEARCH PROBLEM:

Due to the modern and accelerating technology, industrial companies and production factories have faced a set of challenges, the most important of which is the need to keep pace with technical progress in order to be able to perform their tasks and duties efficiently, far from the routine and length of procedures, and this

transformation is not only sufficient to purchase devices, networks and systems, but it is necessary to know the importance and seriousness of electronic management as well as the inability of local companies In competition with foreign companies due to the high cost borne by local companies as a result of storing large quantities of their products, which led to an increase in the prices of their products, and this is what the study can refer to in determining the organizational requirements for working in companies and productive factories and in changing the prevailing culture and administrative concepts using the means of management Modern and advanced electronic. Through what the researcher extracted from the previous literature, it was found that there is a research gap in the study, and the debate has increased about the absence of previous studies that determined the effect of electronic management on the production system at the specified time in the ready-to-wear sector.

Through the results and surveys, the research problem can be presented in the following question

To what extent does e-management affect the on-time production (JIT) system in the garment industry in Egypt?

From this question, we ask some of the following sub-questions:

The study seeks to answer the main research question by answering the following sub-questions:

- 1 - To what extent does electronic management affect the time and costs reduction in ready-to-wear factories?
- 2 - How does electronic management affect the creation of a competitive advantage in ready-to-wear factories?
- 3- What is the level of the impact of electronic management in increasing the profitability of ready-to-wear factories?
- 4 - Is there an effect of electronic management in achieving comprehensive inventory control in ready-to-wear factories?

IV. RESEARCH OBJECTIVES:

- 1- Determine the effect of electronic management on the production system at the specified time on workers in ready-to-wear factories in Egypt.
- 2- Clarify the effect of electronic management in reducing time and production costs in ready-to-wear factories.
- 3- Demonstrate the effect of electronic management in creating a competitive advantage in ready-to-wear factories.
- 4- Knowing the effect of electronic management in increasing the profitability of ready-made garment factories.
- 5- Exposing the effect of electronic management in achieving comprehensive control over inventory in ready-to-wear factories.

V. THE IMPORTANCE OF RESEARCH:

A - Scientific importance: -

- 1 - Clarifying the most important advantages and disadvantages of applying electronic management, as well as identifying the most important negative aspects of it.
- 2- Demonstrate the importance of a timely production system in reducing costs and improving product quality.
- 3- This research is complementary to previous studies in the field of electronic management and its impact on production at the specified time.

B - practical and practical importance: -

- 1 - It is expected that this study and its recommendations will contribute to clarifying the impact of the application of electronic management on the production system at the specified time in companies and factories.
- 2- This study is expected to contribute to improving the control of production processes in the specified quantity at the specified times in order to reach the maximum possible production capacity.
- 3- The researcher hopes that this study will contribute to clarifying the picture in front of the decision-makers regarding the importance of applying electronic management to the production system at the specified time in increasing the economy in general and in increasing and improving the industrial and productive sector in particular.

VI. THE EXPLORATORY STUDY:

The researcher conducted an exploratory study on managers, employees and workers at the military factory outlets for electrical devices in Cairo governorate (Heliopolis neighborhood - Roxy - Al-Nuzha district) in the period from 11/15/2020 to 12/15/2021 on a sample of 50 individuals, where this sector is one of the most important service sectors And productivity and government in the Arab Republic of Egypt in order to clarify the effect of electronic management on the production system at the specified time, as it becomes clear through which the real problem is with an indication of the nature of what is sought from them.

The aim of the pilot study:

- 1- Clarify the study problem in a set of main questions that will be answered through the study to know the effect of electronic management on the production system at the specified time.
- 2- Building the basic hypotheses of the study as various reasons to explain the study problem.
- 3- Learn about the general characteristics of the study community and form an initial picture of it.

Method of conducting the pilot study:

In conducting the survey, the researcher relied on a set of individual and group interviews related to managers, employees, and workers in factories and outlets ready-made clothes (concrete-active factory) in Cairo governorate in the period from 11/15/2020 to 12/15/2020 at Roxy outlets - Al-Nuzha. The following aspects were interviewed

- 1- The extent of the top management's keenness to implement electronic management and its effects on the production system at the specified time
- 2- Knowing the level of the impact of electronic management in reducing time and costs.
- 3- What is the employees' opinion on the effect of electronic management in creating a competitive advantage for the organization.
- 4- A statement of the accuracy of the impact of electronic management in achieving comprehensive improvement on the stock.

Initial results of the pilot study:

- 1- The results confirm that about 82% of the sample use electronic management to improve production on time, and the remainder of the percentage do not use it due to the poor level of workers in applying modern technology means.
- 2- About 86% of the sample confirm that the material component positively affects the improvement of the production system at the specified time
- 3- The results confirm that about 73% of the sample that electronic management has a positive effect in achieving stock control.

VII. RESEARCH HYPOTHESES:

The main hypothesis: There is a statistically significant effect of electronic management on the on-time production system on workers in ready-to-wear factories in Egypt.

The first sub hypothesis: -

There is a statistically significant effect of electronic management in reducing time and costs in ready-to-wear factories.

The second sub hypothesis: -

There is a statistically significant effect of electronic management in creating a competitive advantage in ready-to-wear factories.

The third sub-hypothesis: -

There is a statistically significant effect of electronic management on increasing profitability in ready-to-wear factories.

The fourth sub-hypothesis: -

There is a statistically significant effect of electronic management in the comprehensive control of inventory in ready-to-wear factories.

VIII. THEORETICAL FRAMEWORK:

The study is concerned with a number of the following basic concepts, namely:

Electronic management: It is the administrative process based on the distinct capabilities of the Internet and business networks in planning, directing and controlling resources in order to achieve the objectives of the factory (Al-Zoghbi, 2015).

(Mansour, 2017) explains that electronic management is the transformation of traditional business and administrative services and long and complex procedures using paper into integrated electronic works that depend on communication and information technologies on the Internet to optimize the use of time, money and effort with the required quality.

Youssef (2017) emphasizes that electronic management is an extension of the technological development in management through the widespread use of the Internet for all employees of the organization.

Through the previous definitions, the researcher adopts the concept of electronic management in the study from the point of view (Mansour, 2017), which is that electronic management is the transformation of traditional business and administrative services and long and complex procedures using paper into integrated electronic works that rely on Internet connection techniques to optimize the use of time, money and effort with the required quality.

- **The on-time production** system is to raise the quality of production, reduce capital expenditures, increase the energy sold to reach a product without errors or defects, and strengthen the competitiveness of the factory. (Frank Angly 2018)

Yahyaoui, 2014) believes that the on-time production system is a comprehensive philosophy for all factory operations, starting from purchasing through production and ending with selling to achieve competitiveness in the market.

From the previous definitions, the researcher adopts the concept of a timely production system from the point of view (Yahyaw, 2014), which is that the on-time production system is a comprehensive philosophy for all factory works, starting from purchasing through production and ending with sales to achieve competitiveness in the market.

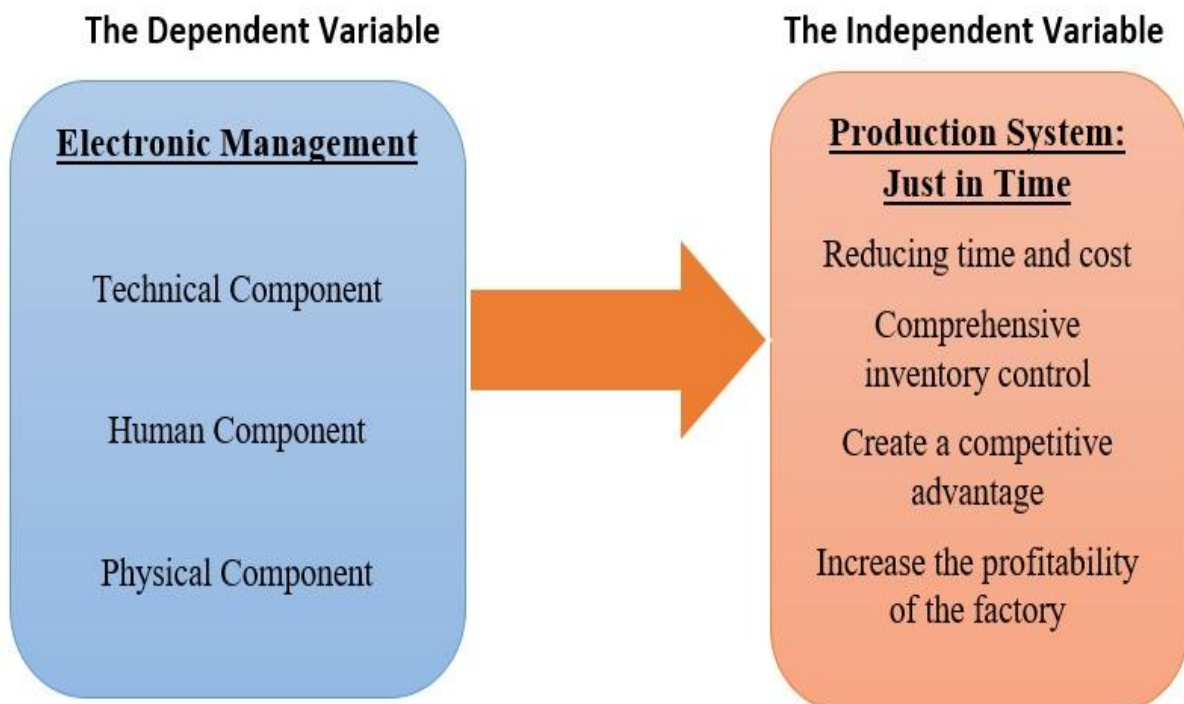


Figure 1: Research Framework

IX. RESEARCH LIMITS:

This message is limited to the impact of electronic management on the production system at the specified time, applying to workers in military factories for electrical appliances.

1- Objective limits: - The study will include the impact of electronic management in its dimensions (the technical dimension - the human dimension - the physical dimension) on the production system on time (reducing time and effort - increasing profitability - creating a competitive advantage - comprehensive stock control).

2-Human limits: - The research community has been defined for all workers, including managers, employees and workers in the military factories for electrical appliances, as they have a good reputation in terms of their production of household electrical appliances, as they have achieved a significant and noticeable improvement in the percentage of sales in terms of the efficiency of these products as well as the large number of sales. Its products have been in the market for a long time, and due to the enormity of the society, where there are more than one branch of the factory at the level of the Republic, it was limited to the 360 Military Factory in Helwan.

3- Spatial boundaries: - Due to the presence of more than one branch of the factory, as the factory is one of the most important and largest factories and the most common and trusted among the study population. The study will be limited to the 360 Military Factory in Helwan.

4- Temporal boundaries: - The researcher made a preliminary exploratory study, and this study will be completed by the completion of the research plan.

Ninth - Research methodology:- The research method includes several main stages, namely: -

A - Method of data analysis:

1- Descriptive analytical approach: to study and analyze the impact of electronic management on the production system on time and the appropriateness and ability to measure the performance of workers in garment factories and determine the reasons that led to the decline in the performance of workers in the military factories and to what extent the electronic management process can contribute to improving the performance. Employees, improving production processes, increasing sales and increasing profitability in ready-to-wear factories.

2- Multiple regression analysis method: The multiple regression method was used to measure the strength of the effect of the independent variable on all dependent variables in the study and determine the relative importance of the variables through statistical tests (beta coefficient - F-test factor - T-test factor)

3- Descriptive statistical measures: represented by the arithmetic mean, standard deviation, arithmetic mean, frequency and arithmetic tables, and percentages in order to know the dimensions of electronic management on the production system at the specified time as well as knowledge of the characteristics of the study community (age - qualification - gender - marital status - job)

4- The SPSS statistical packages program is used to test the validity of research hypotheses and achieve its objectives, in addition to the AMOS structural path analysis program and conduct the required analyzes.

5- The method of the Cronbach alpha coefficient to measure the stability of the survey list in the study.

6- Statistical tests for the research hypotheses will include the F-Test-T-test.

B- Research data and it depends on two types of data:

(1) - Secondary data:

It is represented in Arab and foreign references, published research and other scientific messages related to the research topic, in addition to the researcher's reliance on statistical data, results and available reports.

(2) - Initial data:

These are data related to theoretical studies, which were collected theoretically through the Internet and the results of previous studies, and in the field through exploratory studies, interview and survey models that were prepared based on the researcher's findings in order to determine the variables to be measured:

C - Research community: -

The research community includes all workers, including managers, employees, and workers in garment factories (concrete and active factories in the tenth of Ramadan in the Arab Republic of Egypt).

D- The method for selecting the sample size

The researcher depends on the method of the random sample, and the size of the sample was determined by the following law (Eid, 2016)

(p-1NXP)

$n = \frac{p-1 + p \div (Z)^2 \times (d)^2 \times N - 1}{p-1}$

(p-1 + p ÷ (Z)²) X (d)² X N -1

- Where N is the study population.
- Where n is the sample size.
- Where Z is the standard score appropriate to the level of significance.
- Where D is the permissible error ratio.
- Where B is the percentage of availability of the property

And by compensation in the previous rate, the sample size is 384 items, and it was decided to increase it to 400 items, calculated for the non-response of some of the sample items and thus to avoid the percentage of responses and for caution and caution.

E - The type and procedures of the sample: -

The researcher was keen to obtain the approval of the director of the factory outlet in Roxy and El Nazha before starting an interview with the employees

Y- The sampling unit: -

All employees (concrete - active factories) for ready-to-wear clothes in the tenth of Ramadan.

I - Measurement: - The researcher believes that the following measures can be relied upon:

(1) The independent variable (E-management), as the researcher relied on measuring this variable with a scale (David Brimle, 2016), as this variable includes three dimensions:

A - the technical dimension B - the human dimension C - the physical dimension

(2) The dependent variable is the JIT production system, as the researcher adopted in measuring this dependent variable on a scale (Hiroyaki, 2019) and it includes four dimensions, namely:

A - Reducing time and effort B - Increasing profitability C - Creating a competitive advantage, D - Comprehensive inventory control

X. CONCLUSION:

The conclusion contains a presentation of the researcher's most important findings, as well as the researcher extracts a number of important recommendations for the study.

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