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TYPES OF INFORMATION TECHNOLOGIES IN ENTERPRISE MANAGEMENT

The modern stage of development of the Ukrainian economy is characterized by the rapid pace of scientific and technological progress, as well as by the process of digitalization, which caused the widespread implementation and use of information technologies in all areas of enterprise activity.

This issue has been studied in the works of many researches, including: H. Pchelianska, K. Vaskovska, D. Pcheliansky [1], A. Soroka [2], T. Markova, G. Pchelianska, Yu. Melnyk, S. Tilloyev [3], M. Paweska, T. Popkowski [4] and others.

The purpose of the study is to summarize the types of information technology in enterprise management.

Information technology is a management tool that serves to control business processes [2]. The role of information technologies in the management of industrial enterprises is very significant and lies in the fact that it accelerates the process of obtaining, disseminating and using the new knowledge of humankind by society. It is because the volume and requirements for information at all levels of management has significantly increased, as well as the activity of interaction with the external environment has strengthened.

The information management system exists to solve the problems of accounting, tactical and strategic planning, operational management of the enterprise. The types of information technologies in enterprise management are shown in fig. 1.

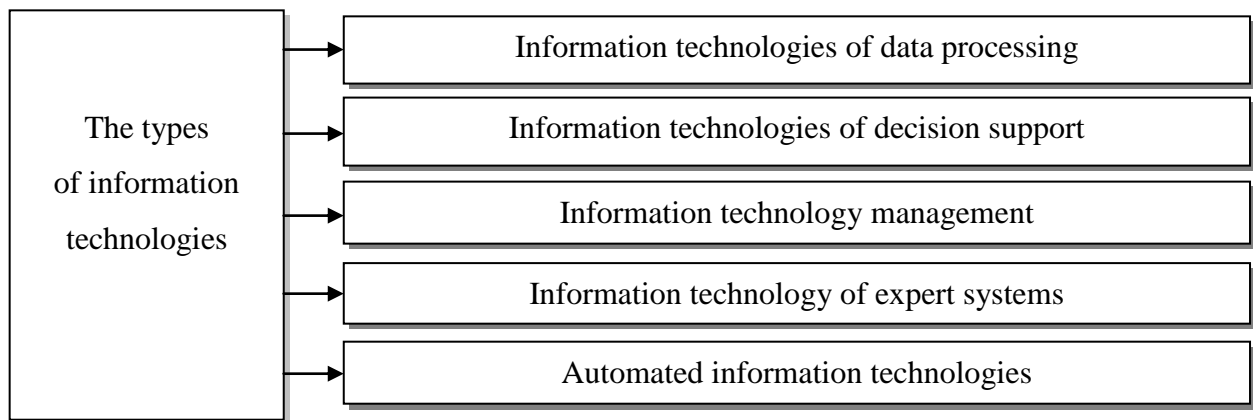


Figure 1 – The types of information technologies in enterprise management

Source: authors' creation based on [1-4]

The main classification features of automated information systems are: level in the public administration system; types of management processes; the degree of automation of information processes.

An enterprise management information system should combine three levels of management: business process management; design and development management; production process control.

The system must control the production process and the deviation of the parameters of permissible values, starting from the stage of planning the sales order to the shipment of the finished product to the consumer. Besides, the system must implement a methodology for managing costs and cost centers that requires planning the cost of products, approving planned standards and controlling deviations of actual costs from their standards for modern action. Based on the production plan and the target cost, the system should estimate the production cost. Furthermore, the system should ensure the unity of financial and management accounting data.

At modern enterprise, changes in the management system should include: improving the organizational structure, certification of the quality system, the introduction of a process approach to enterprise management. The implementation of information technologies is one of the main tools for increasing the efficiency of the enterprise management system.

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