

COMPONENTS OF ECONOMIC EFFECT OF CORPORATE INFORMATION SYSTEMS USE AT MINING AND METALLURGICAL WORKS

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Research methodology. Results are obtained with the application of methods of system analysis and synthesis – in the study and synthesis of existing concepts of assessing the economic effect of corporate information systems (CIS) use; economic-mathematical modeling – in developing methodical approaches to specifying the economic effect of ERP system from investors' point of view, short-received cut in expenses owing to the delay in administrative decisions making, and also total cost of ownership of CIS.

Results. Components of economic effect of corporate information systems (CIS) are determined.

Efficient approach to the assessment of economic information and CIS is offered. It is established that use of computer facilities allows significant acceleration of economic information production and at the same time an increase in its quality. It is proved that the main effect of enterprise resources planning (ERP) system consists in acceleration of administrative decisions making. It is established that internal economic information processed and prepared at the enterprise has all characteristics of a product, and CIS is the environment in which this product is made. It is pointed out that enterprises have to carry out separate analysis of economic effect of production of different types of documents. It is offered to calculate the size of the short-received cut of expenses owing to the delay in administrative decisions making in proportion to working hours of the equipment.

Novelty. It is proved that the main effect of enterprise resources planning (ERP) system consists in acceleration of administrative decisions making.

Practical value. The developed approaches can be used by owners and management of enterprises using corporate information systems. The offered efficient approach to the assessment of economic information and CIS allows not only to improve economic efficiency of production and the use of economic information, but also to more precisely estimate overall performance of the personnel of the enterprise involved in this production.

Keywords: economic effect, information system, object of calculation, internal economic reserves, discounting rate, total cost of ownership.

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