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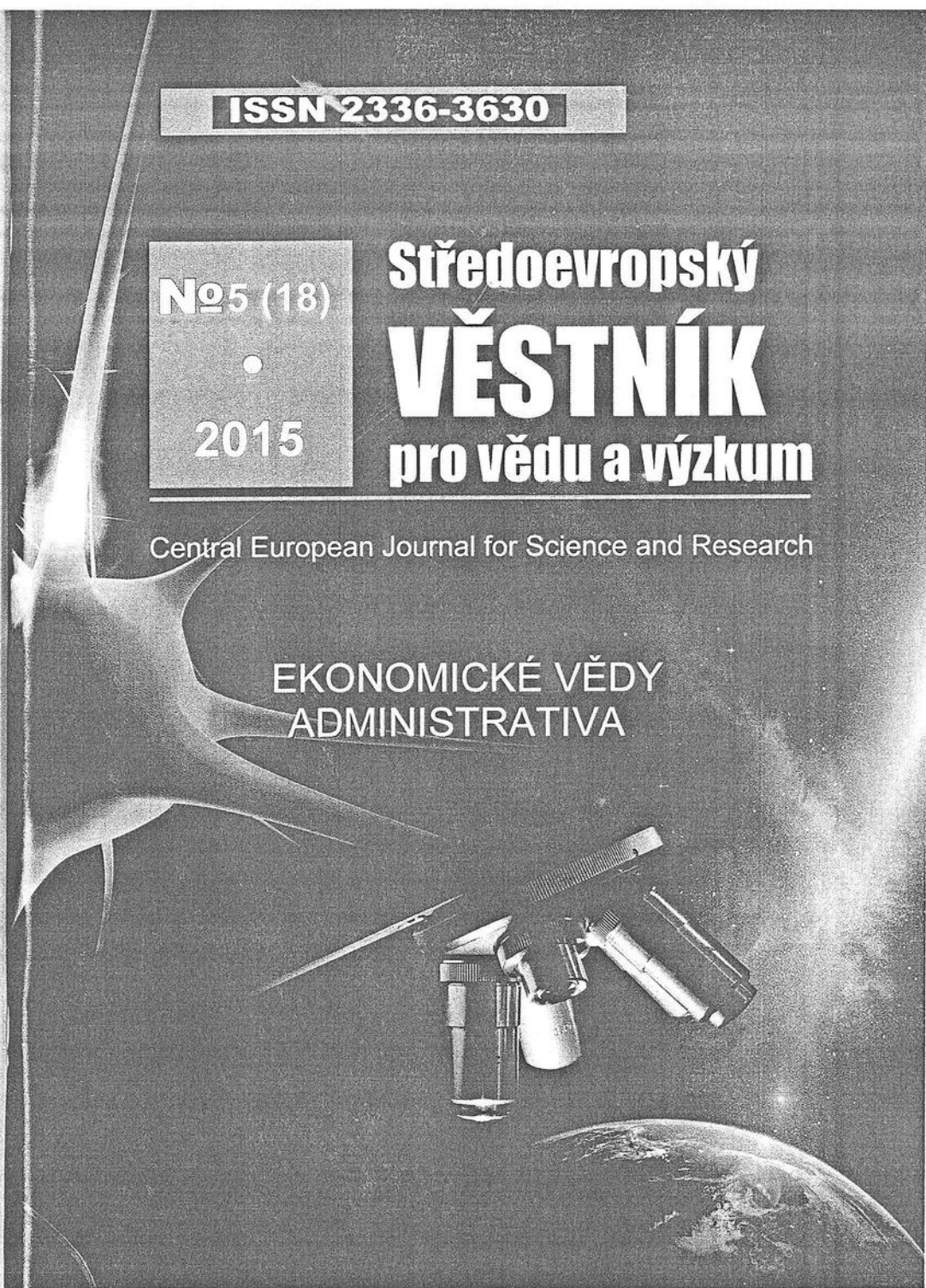
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MODELS OF IT PROJECTS IN RESCUERS TRAINING SYSTEM IN CONDITIONS OF TURBULENCE AND CYBERNATION OF SOCIETY

Annotation. In the article was analyzed current state of development of IT projects in rescuers training system. Was defined the main features of introduction and realization of IT projects in civil protection system of Ukraine. Were classified IT projects and defined their place in rescuers training system. Was been developed the model of life cycle of IT project in rescuers training system.

Keywords. Rescuer, IT project, civil protection, information technology, models.

Introduction

Today, the theoretical principles of project management are widely used in almost all spheres of human activity. Methods of management are integrating into the business, education, economy, various blocks of state administration, etc. The use of optimized development models and their implementation in projects allows quickly and effectively implement diverse management functions.

Ensuring safety of human life is one of the priority directions of state development in modern conditions of cybernation [1, 5]. Today there is going a process of combining the project approach with features of management in the system of civil protection. It is of great scientific and practical interest not only Ukrainian scientists, but the world in general also. Global cybernation, development of powerful informational and cyber systems has a significant impact on modern education. It stimulates education services market constantly to cooperate with the newest technologies.

Statement of the problem

Today we are witnessing of rapid informatization rates of all spheres of human activity, dynamic development and interpenetration of modern technology in everyday life. All this leads to significant qualitative changes in roles and functions of information technology in modern society [3].

New problem issues are gaining actuality with the development of technology today. How to manage the newest technologies? Who will control their efficiency? How to ensure maximum protection and security of people in turbulent environment? To answer these and other questions tried in their works such Ukrainian and foreign scientists as S.D. Bushuev, S.K. Chernov, V.A. Rach, Y.M. Tesla, O.B. Danchenko, V.K. Koshkin, V.D. Gogunsky, H. Tanaka, M.M. Kozyar, O.B. Zachko, O.M. Medvedev and others. However, problems of implementation models of IT projects were not enough elucidated in their researches, particularly in the training system of specialists at the higher educational institutions with specific learning environment.

The main part of the research

Development of modern information technology is characterized by structural shifts in the direction of complex IT projects whose aims are formulated according to requirements of society informatization level. The use of IT-projects is the best tool for introduction of information technology into the system of professionals training of any sphere. Such projects are characterized by specificity of the final product, nonlinearity of development process, increased risk at the end of the life cycle and so on.

In the general understanding IT project – a set of formally organized action to achieve a common goal, creating a complex system with established quality characteristics and limited resources. Such project is a set of mutually related resources that provides release of one or more IT products for the customer or end user. In practice, such projects represent a set of processes that ensure changes of technological or social systems.

Specificity of rescuers training system of civil protection at the higher education institutions with specific learning environment is different in the conceptual framework of the IT projects. [3,6].

IT project in rescuers training system is a set of processes and complex actions related to the creation, improvement or implementation of information systems or parts of them in learning process. These projects provide a high level of knowledge of future professionals in information technology and telecommunications, as well as training new type of rescuers.

Conducted analysis of studied problem allows perform classification of IT projects implemented in the system of civil protection according to the division of the main characteristics (Fig. 1.)

Management of any project involves the use of certain methods by which further plan of the project will be built [2]. Properly selected method allows make effective

management of time, cost, content, quality, risk, human resources, communications and integration in projects. All this ensures successful implementation and high quality of the product of the project [4].

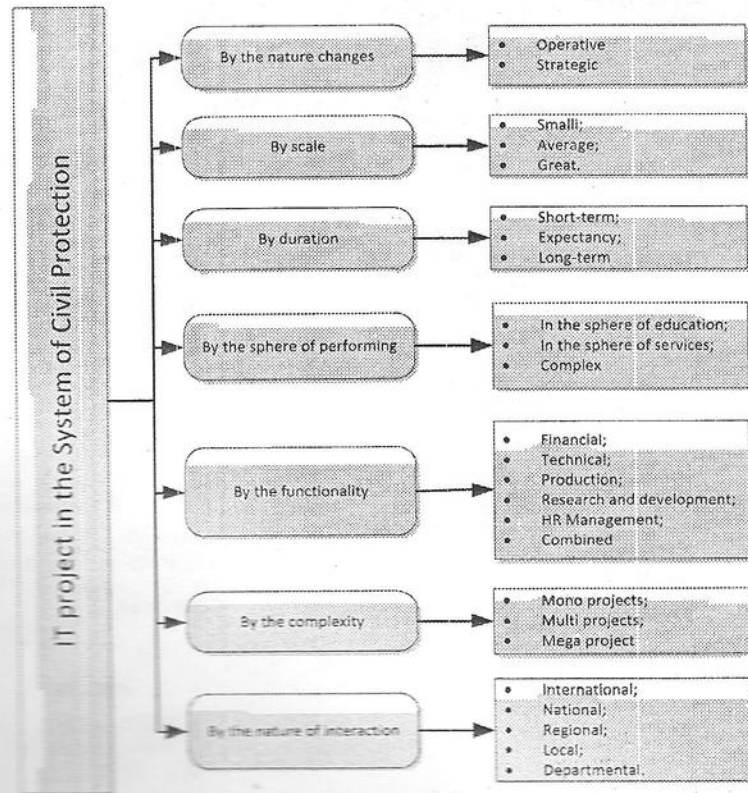


Fig.1. Classification of IT projects in the system of civil protection

Current level of project management development offers to managers several methods of IT project management (Fig. 2). But the most widely used methods are: use of methods and models of American national standard – Project Management Body of Knowledge (PMBOK) and Japanese methodology of management of innovation projects and programs – A Guidebook of Project and Program Management for Enterprise Innovation (P2M). Each has similar approach as well as differences.

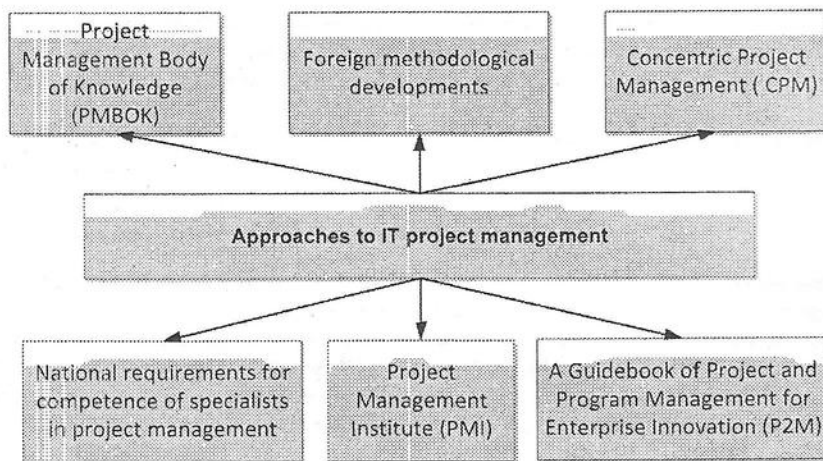


Fig.2. Approaches to IT project management

Realization of state informatization strategy stimulates rapid changes in a turbulent environment of IT projects. Formation of IT projects in rescuers training system in terms of turbulence and society cybernation is complex and multifaceted process [2].

The life cycle of IT projects consists of five phases: phase initiation, planning phase, performing phase, phase of monitoring and control and phase of project completion.

The beginning of IT project, like others is its initialization and the end – its completion. Between these two events are located (nonlinear) planning, work implementation, control and monitoring. The nonlinearity consists is that these processes are consecutive, but iterative (are repeated) (Fig. 3). After project planning begins its execution and monitoring. However in process of performance of works monitoring identifies «needs that have accumulated in changes». The primary plans corrected, development and further monitoring has been going on them.

Each phase of the project life cycle involves performing a particular set of works.

The Customer of IT projects in rescuers training system is State, as the highest element in public administration in system of civil protection. The initiator of such projects is the State Service for Emergency Situations of Ukraine (SSES of Ukraine). Project initiator formulates the main provisions of IT projects substantiates its feasibility, forms general strategy of implementation and etc.

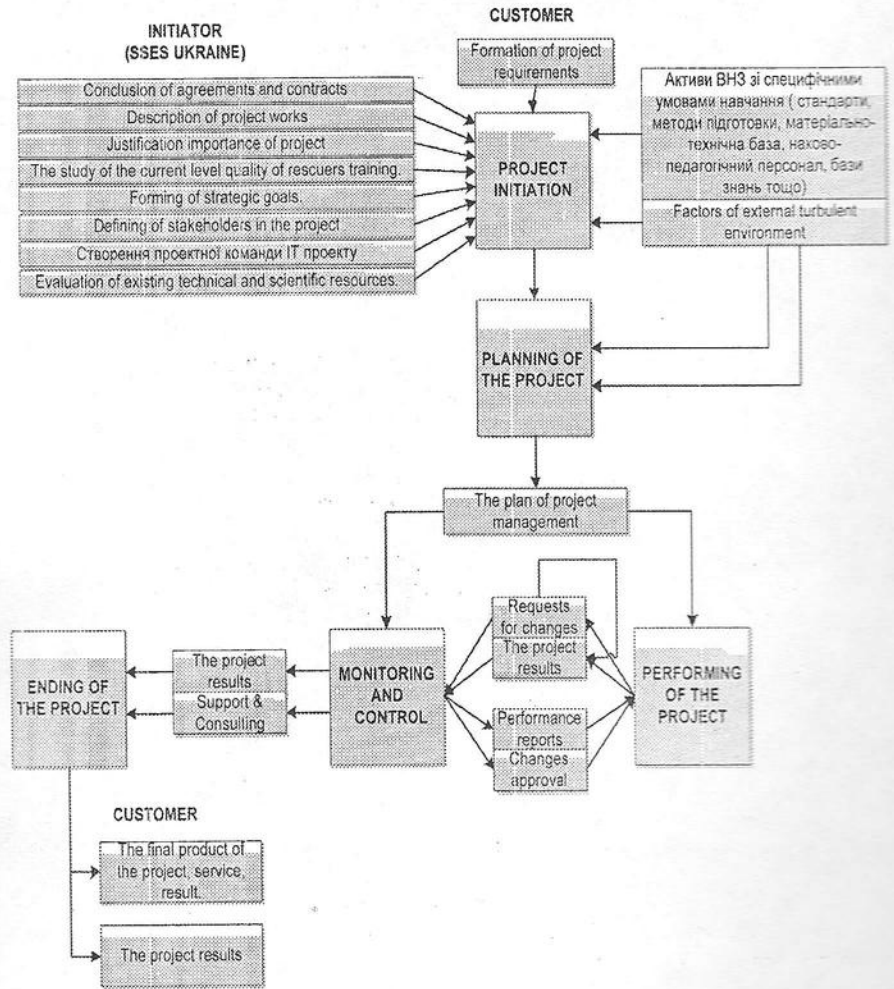


Fig.3. The model of life cycle of IT projects in rescuers training system

The product of IT projects is development of new information technologies in system of civil protection. They are intended for the automation of operational decision making in projects management of emergency response. Product of IT projects is also a new type of rescuer who able effectively manage innovation projects in terms of

turbulence and global cybernation of society. Database and base of knowledge are often used in IT projects. They play function of accumulation of past experience and supporting planning processes prospects in the future. Informational competency provides operational decision making and its quality of emergency response by rescuers. It provides a high level of trust to the profession of rescuer and the system of civil protection as a whole.

Conclusions

Integration of models of IT projects in educational field of civil protection will allow effectively manage projects in rescuers training. Classification of IT projects is presented and defined its role in rescuers training system on the basis of the analysis of the current state of development. Was been developed a model of the life cycle of IT project in rescuers training system. Uses of IT projects is the best way of education building considering current level of turbulence of external and internal environment and global society cybernation.

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