

DEVELOPMENT OF PROJECT MANAGEMENT METHODS

Wang Xitong, Gliznutsa M.Yu., Pererva P.G.

National Technical University «Kharkiv Polytechnic Institute», Kharkiv

The development of project management techniques is an important aspect of modern business, as projects become increasingly complex and require effective leadership to achieve success. We offer key stages and directions for the development of project management methods.

1. Stages of development of project management methods. Initially, projects were managed using the traditional Waterfall method, where each phase of the project (initiation, planning, execution, control and completion) was performed sequentially, and change was difficult. In recent decades, iterative incremental methods such as Agile and Scrum have become popular, which allow development project faster and involve customers in the process. Recently, hybrid methods have emerged that combine the advantages of traditional and Agile approaches, such as PRINCE2 Agile, which combines project management and Agile requirements.

2. Development directions of project management methods. Modern project management methods focus on an adaptive approach to change. They recognize that changes are inevitable in the life cycle of a project and create a framework for their effective management. Modern methods give more importance to the role of the team and collaboration. Teamwork, self-organization, and mutual assistance are considered key elements of successful project management. Methods that encourage experimentation, openness to change, and continuous improvement are growing in popularity. This is important for adapting to rapid changes in the business environment. New tools and technologies have appeared to support project management, such as software products for collaborative work, tools for project visualization and analytics, which facilitate the process of planning and execution. Modern project management methods emphasize the risks and sustainability of projects. The development of project management methods occurs in accordance with changes in the business environment, technologies and approaches to work. It is important to apply modern methods according to the needs and nature of each specific project or organization in order to ensure the successful completion of tasks and achievement of strategic goals.

References:

1. ТОВАЖНЯНСЬКИЙ В.Л. Антикризовий механізм сталого розвитку підприємства / ТОВАЖНЯНСЬКИЙ В.Л.- Х.: Віровець А.П. : Апостроф, 2012.- 703 с.
2. Vytvytska O., Martynyuk O., Shpak N., Karcheva G., Medynsky I., Nodzhak L., Modern Structural-functional modeling for the determination of the company's equilibrium conditions in the dynamic business environment. *Mathematical Modeling and Computing*, Volume 7, Issue 1, (2020):104-111. doi: 10.23939/mmc2020.01.104.
3. Shpak N., Vytvytska O., Martynyuk O., Kylaec M., Sroka W., (2022). Formation of management and technological maturity levels of enterprises for their dynamic development. *Engineering Management in Production and Services*, 14(3), 1-12.
4. ВИТВИЦЬКА О.Д. Особливості формування механізму регулювання інвестування інновацій в сучасних умовах // *Науковий вісник Національного університету біоресурсів і природокористування. Сер.: Економіка, аграрний менеджмент, бізнес.* 2013. Вип. 181(4). С. 85-90.