ECONOMIC MECHANISM FOR DECOMPOSITION OF RESULTS OF SCIENTIFIC AND TECHNICAL ACTIVITIES

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Abstract: This paper is aimed at researching project management tools that allow the management of high-tech companies that create and work with RSTA to discover new opportunities provided by a new project management tool: economic mechanism of results of scientific and technical activities decomposition. The article examines modern management methods based on the available resource potential. The methodological aspects of the research are based on solving the multi-criteria problem of project management, covering the practical area of research activities carried out by high-tech companies.

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One of the tools for making effective decisions that allows the choice of the optimal solution in the presence of many alternatives is work with the existing resource base of the enterprise.

Since the foundation of the resource base of any enterprise is formed by assets transferred by its founders, as well as created in the process of carrying out economic activities, which form the fundamental economic foundations on which the vital activity of the enterprise in general is built, they cannot be considered one-sidedly as an element of distribution, first of all they have an institutional importance associated with the achievement of the set strategic goals, implementation of socio-economic missions and possibility of using intellectual capital.

The use of intellectual capital in the form of RSTA as a resource base will allow the enterprise to provide strategic competitive advantages, and in addition, with a skillful organization of the effective administration process, receive superprofits in the market; constantly monitor the cost of manufactured products, implementing fundamentally new scenario approaches to cost optimization.
High-tech companies, in most cases, participate in the implementation of investment projects in the field of R&D, which are often interconnected and their implementation largely determines the financial and economic component of the company. The administration of R&D projects requires the use of various models for optimizing the existing resource base and solving the problem of further choosing an investment strategy. The choice of the optimal option for the given resource constraints affects the total cost of the project and its profitability.

An essential condition for solving the posed problem of choosing the optimal option is the development of an economic mechanism for decomposition of RSTA.

The reliability of the results largely depends on the degree of adequacy of the initial technical and economic information to the real conditions of their implementation, methodological validity, algorithmic and regulatory correctness of the calculations.
The economic mechanism of decomposition of RSTA is implemented by means of solving the problem at the lower level for each element of RSTA with subsequent transfer to the upper level of the optimal solution, where the planned result is adjusted as a set of private optima aimed at achieving a single goal.

The economic mechanism of decomposition of RSTA is based on the use of elements of economic and mathematical modeling, which ensures the selection and adoption of the optimal decision for the subsequent use of RSTA as a resource base, which allows implementing fundamentally new scenario approaches to cost optimization and the subsequent formation of enterprise profits.

Thank you for your attention!