
Practical aspects of economic processes management

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REVIEW ON A COLLECTIVE MONOGRAPH
«INTERNATIONAL TECHNOLOGY TRANSFER AND NATIONAL
SECURITY: TRENDS, CHALLENGES, PROSPECTS»,
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The development of high technologies and their spread between countries is an integral part of the world economic process, and the effectiveness of national innovation systems is increasingly assessed based on the use of developed technologies in the world market. The country's participation in the processes of development and transfer of high technologies depends on the level of its socio-economic development and the effectiveness of identifying innovation priorities and developing an international strategy. This necessitates the development of theoretical principles and practical recommendations for the participation of countries in the development of high technology in the global innovation system. Barriers in the field of transfer of knowledge must be quickly addressed within the framework of national security issues, since the innovation factor is the basis for the development and protection of national interests.

Thus, the presented monograph «International technology transfer and national security: trends, challenges, prospects», devoted to the development of theoretical foundations of high technology and development of practical recommendations for improving the model of Ukraine's participation in international high technology transfer taking into account national security, is in demand from the standpoint of modern economics and practically significant.

First of all, it is worth noting the author's proposed organizational and economic approach to the development of high technologies through the implementation of the strategy of their international transfer, which, firstly, is based on the assessment of transfer channels based on the concept of innovation ecosystems and neural network theory. systems to develop the potential of externally derived innovation ideas (the effect of innovation momentum), thirdly, allows you to choose the best ways to strengthen the national innovation system through participation in processes within the global innovation system.

Also noteworthy is the systematization of global economic trends that intensify the processes of internationalization of high technology, which in contrast to the existing takes into account the features of high technology and mechanisms of infrastructure, which combines the study of individual participants in the innovation system and its analysis as a whole.

The author's classification of the effects of the country's participation in the processes of international high-tech transfer by identifying new classification features and effects takes into account both the general effects of international technology transfer and specific high-tech factors, and allows a comprehensive assessment of international high-tech transfer efficiency.

From an applied point of view, the following results are important:

- methodical approach to assessing the impact of international transfer of high technologies at different levels of innovation systems (state, region, enterprise) and the relationship between them, which, unlike existing ones, takes into account the peculiarities of innovation generation and adsorption capacity of the economy;

- the sequence of choosing the method of commercialization of technology, which in contrast to existing involves the use of additional international criteria for evaluating technology and their relationship to the potential of the technology package and allows to take into account the links between technologies in the international dimension;

- organizational and economic approaches to managing the development of space technology, which, in contrast to existing ones, take into account intersectoral links and features of the technological package of the industry, its evolutionary development and the possibility of eliminating technological fragmentation, which will effectively integrate into international projects.

The following ideas of the monograph are innovative:

- scheme of analytical support of international innovation and technological cooperation, which in contrast to the existing is based on the optimization of the technological package and allows you to choose the most effective areas of cooperation based on a combination of financial and economic indicators and criteria of technological efficiency;

- institutional mechanism for managing high-tech clusters, taking into account intersectoral technology transfer (forward and reverse) on an international scale,

which, in contrast to existing ones, takes into account the need for intersectoral technology transfer and convergence trends;

- a conceptual approach to the virtualization of innovation structures, in particular clusters, which, in contrast to existing ones, takes into account the possibilities of using sectoral opportunities of globalization.

The monograph is characterized by a systematic approach to research and the use of a set of general scientific and special methods that ensure the validity and reliability of the results. The practical significance of the obtained results lies in the development of theoretical, scientific and methodological results and applied recommendations for improving the efficiency of high technology development in the context of globalization.

In general, V. Omelyanenko's monograph «International technology transfer and national security: trends, challenges, prospects» is a completed research work, performed in a logical sequence, broadly covers and deeply studies the problem, and can be recommended for publication.