

## **THE CONCEPT OF SCIENTIFIC AND TECHNOLOGICAL MODERNIZATION OF REGIONAL FAT AND OIL ENTERPRISES**

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### **ABSTRACT**

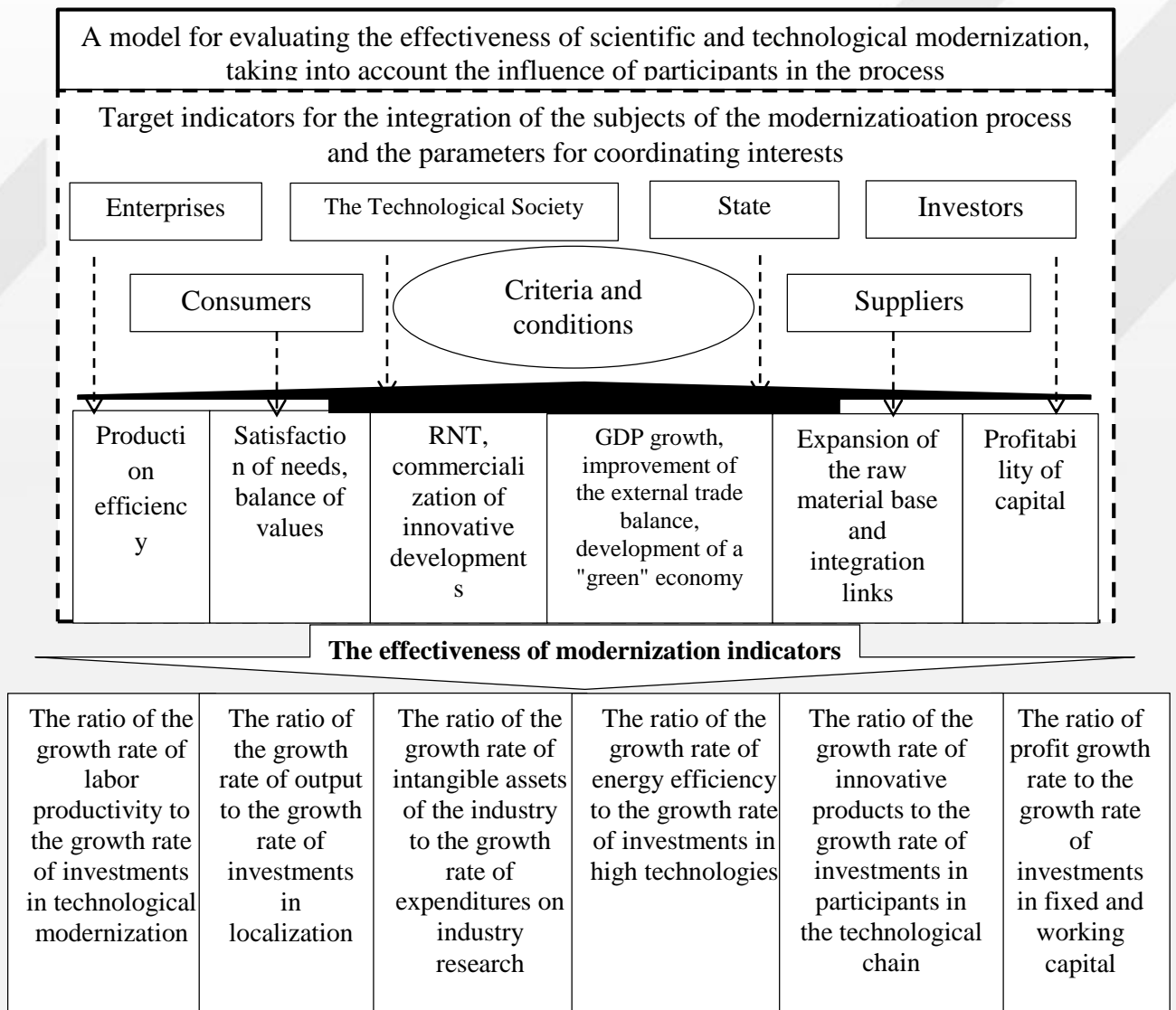
The purpose of scientific and technological modernization of individual industries is to strengthen the scientific and innovative potential of the industrial sector as the basis for the development of the country's economy. The essence of modernization is to create a modern production oriented towards export and localization as a result of the implementation of strategies aimed at using modern technologies that increase labor productivity and production efficiency in the network, increase the share of innovative products, and introduce innovative organizational and marketing methods. Based on this, the author proposes a strategy for scientific and technological modernization characterized by the idea of four interconnected modernization complexes.

A detailed description of the models of scientific and technological modernization in the form of grouping makes it possible to more clearly define its boundaries, present various aspects of the phenomenon and identify effective models for individual industries. In the dissertation work, based on the study of foreign experience of scientific and technological modernization, the typology of its models was systematized, and the author also developed a group of models of scientific and technological modernization of the fat and oil industry (see Fig. 1).



**Fig. 1. Models of scientific and technological modernization of the fat and oil industry**

Given the presence of multidirectional driving effects of the process of scientific and technological modernization, distinguishing between limiting and stimulating factors, it is important to study the mechanisms of influence of public administration and regulation at the macro and micro levels within these groups. The positive and negative factors identified in the dissertation work that affect the development of the fat and oil industry in Uzbekistan allow us to identify active tasks that need to be implemented at different levels of government, including the sequence of state support measures. Based on the analysis of scientific literature, the researcher identified and described the main stimulating and limiting macroeconomic factors in the medium term. On their basis, the main directions of measures aimed at solving the main systemic problems of the fat and oil industry of Uzbekistan, the formation of new production potential, scientific and technological modernization of the fat and oil industry, and improving the quality of life of various categories of the population are determined.



**Fig. 2. A model for evaluating the effectiveness of scientific and technological modernization**

An integral function of modernization process management is not only planning (design), organization (models and mechanisms), motivation (incentives and benefits), but also control, including analysis and evaluation of performance. In this regard, at the next stage of research, the author tried to improve the assessment of the impact of scientific and technological modernization based on the study of its various approaches.

Justifying the need to take into account other results of modernization, in addition to the purely economic effect determined by the traditional method, the author systematized the areas of manifestation of many effects of scientific and technological modernization and developed an improved assessment methodology based on target criteria from the point of view of scientific and technological modernization and the identified factors and directions.

The proposed methodology for evaluating the effectiveness of scientific and technological modernization (see Fig. 2) it can be implemented both at the level of an individual enterprise and industry, and at the regional level.

The model of the process of scientific and technological modernization of the fat and oil industry is developed on the basis of criteria for assessing the impact of the effectiveness of mutual cooperation between its participants (enterprise, technological community (scientific, educational institutions, innovation centers), the state, investors, consumers (population, food enterprises, organizations) and suppliers (suppliers of raw materials, machine-building enterprises) on the areas of modernization (economic, social, environmental, scientific and technical), which is the basis for the creation of fat-and-oil clusters in the regions, those who have the authority to modernize.

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