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INNOVATIONS IN TECHNOLOGY AND SCIENCE EDUCATION IMPROVING ECONOMIC INCENTIVE AND RESOURCE-ALLOCATION MECHANISMS AS A FACTOR IN INCREASING THE EFFICIENCY OF INDUSTRIAL ENTERPRISES: EVIDENCE FROM THE “TECHNOPARK” ENTERPRISE

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Abstract. This article substantiates an improved economic incentive mechanism that links technopark residents' tax and customs preferences to the monitoring of reinvestment in innovative activities, using the “Technopark” enterprise as an illustrative case.

Keywords. Economic incentive mechanism, resource allocation, economic efficiency, industrial enterprise, technopark, preferential regime, integral efficiency index.

Annotatsiya. Maqolada texnopark rezidenti bo'lgan sanoat korxonalarining soliq va bojxona imtiyozlarini innovatsion faoliyatga qayta investitsiya qilish monitoringi bilan bog'laydigan takomillashtirilgan iqtisodiy rag'batlantirish mexanizmi “Technopark” korxonasi misolida asoslab berilgan.

Kalit so'zlar. Iqtisodiy rag'batlantirish mexanizmi, resurslarni taqsimlash, iqtisodiy samaradorlik, sanoat korxonasi, texnopark, imtiyozli rejim, integral samaradorlik indeksi.

Аннотация. В статье на примере предприятия «Технопарк» обосновывается усовершенствованный механизм экономического стимулирования, увязывающий налоговые и таможенные льготы резидентов технопарка с мониторингом реинвестирования средств в инновационную деятельность.

Ключевые слова. Экономический механизм стимулирования, распределение ресурсов, экономическая эффективность, промышленное предприятие, технопарк, льготный режим, интегральный индекс эффективности.

INTRODUCTION

In the context of the accelerating structural transformation of the national economy, the efficiency of industrial enterprises is increasingly determined not only by internal production factors but also by the quality of the organizational and economic mechanisms that coordinate management decisions, resource flows, and innovation activities. Industrial enterprises operating within technopark infrastructure occupy a particularly important place in this process, as they successfully combine production functions with research, development, and technology commercialization activities.

The economic policy of the Republic of Uzbekistan places considerable emphasis on the development of technoparks and innovation clusters as effective instruments of industrial diversification, technological



modernization, and export-oriented growth. The expanding activities of technopark resident enterprises demonstrate the significant potential of the existing support system. At the same time, further strengthening the connection between tax and customs preferences and the purposeful use of the resulting fiscal savings may contribute to increasing the effectiveness of these incentives and supporting sustainable innovation development. This determines the relevance of the present research.

The scientific novelty of the research lies in substantiating a conditional preferential regime mechanism for technopark resident industrial enterprises, under which the continued use of tax and customs preferences is linked to the monitored and documented reinvestment of the resulting benefits in innovation activities. Uzbekistan's general investment legislation already provides a comparable reinvestment requirement for certain categories of foreign investment tax incentives. Building on this positive legislative experience, the proposed approach extends similar principles to the preferential regime established specifically for technopark residents.

The purpose of this article is to substantiate theoretical and practical directions for improving economic incentive and resource-allocation mechanisms aimed at increasing the economic efficiency, innovative capacity, and sustainable development of industrial enterprises, using the "Technopark" enterprise as an illustrative case.

LITERATURE REVIEW

The theoretical foundations of the organizational and economic mechanism have been developed within several complementary schools of economic thought. The classical theory of innovation-driven development regards an enterprise's ability to combine resources in new ways as a principal source of economic growth [2]. The theory of competitive advantage emphasizes that enterprise efficiency is shaped by the quality of its internal value chain and the institutional environment in which it operates, including access to specialized infrastructure such as technoparks [1].

In the economic literature devoted to industrial enterprise management, the organizational and economic mechanism is generally understood as an integrated system of organizational structures, economic instruments, motivational tools, and control procedures that jointly ensure the achievement of an enterprise's strategic and operational goals [3, 4].

Empirical studies of enterprise-level digital transformation indicate that the impact of digital tools on production efficiency is mediated by organizational and managerial factors rather than occurring automatically [5]. This finding supports the integration of digitalization with clearly defined incentive and monitoring mechanisms instead of treating it solely as a stand-alone technical measure. Research on unified digital platforms in other infrastructure-intensive sectors similarly demonstrates that consolidating planning and monitoring functions within a single platform contributes to improved resource coordination among geographically dispersed participants [9].

RESEARCH METHODOLOGY

The study is based on a systemic approach that considers an industrial enterprise an open economic system interacting with the institutional and infrastructural environment of a technopark. This approach makes it possible to examine the interrelationships among organizational structures, economic incentives, resource flows, innovation activities, and monitoring procedures within a unified analytical framework.

The following research methods were applied: structural and functional analysis, used to decompose the organizational and economic mechanism into its constituent subsystems; comparative analysis, used to compare the existing mechanism with the proposed improved mechanism; and economic-mathematical modelling, used to construct an integral index of economic efficiency.

The proposed model is presented in a generalized and methodologically replicable form, enabling it to be populated with the empirical indicators of any specific technopark resident enterprise, including the "Technopark" enterprise, in subsequent dissertation research. In preparing the text of this article, artificial intelligence tools were used to a limited extent, accounting for no more than 10 per cent of the text-preparation process, primarily to support linguistic and structural refinement.

ANALYSIS AND RESULTS

The organizational and economic mechanism of a technopark resident industrial enterprise can be represented through five interrelated subsystems: the organizational and managerial subsystem; the economic incentive subsystem, which includes pricing, cost management, tax and customs preferences, and profit distribution; the resource-allocation subsystem, covering shared infrastructure, equipment, and R&D facilities;



the information and analytical subsystem, comprising accounting, reporting, and efficiency monitoring; and the control and motivation subsystem.

The analysis indicates that technopark resident enterprises have considerable potential to strengthen the integration and coordination of these subsystems. Establishing closer links between economic incentives and innovation outcomes, as well as expanding existing reporting tools to include innovation activity and preference-utilization indicators alongside standard financial indicators, can further improve the overall effectiveness of the organizational and economic mechanism.

Based on this analysis, an improved economic incentive and resource-allocation mechanism is proposed. Its central element, constituting the scientific novelty of this article, is the establishment of a conditional and monitored linkage between preferential tax and customs regimes and reinvestment in innovation activities. Under this approach, the preferences granted to a technopark resident are linked to the documented redirection of a minimum share of the resulting benefits toward innovation-related expenditures, including R&D, equipment modernization, staff qualification improvement, and technology commercialization.

Compliance with this requirement is verified through annual digital disclosure. To ensure flexibility and support the gradual adaptation of resident enterprises, any adjustment of preferences in cases of non-compliance is implemented progressively rather than abruptly. This approach creates favourable conditions for strengthening accountability while maintaining incentives for sustainable innovation development.

The proposed mechanism is complemented by three supporting directions: performance-oriented motivation, under which part of employee remuneration is linked to innovation indicators; the digitalization of shared-infrastructure scheduling; and cluster-based coordination between the technopark administration and the structural divisions of resident enterprises.

To assess the impact of the proposed mechanism, an integral efficiency index (IEI) is introduced. The index combines four sub-indices with adjustable weighting coefficients:

$$IEI = w_1 \cdot E_p + w_2 \cdot E_f + w_3 \cdot E_i + w_4 \cdot E_s$$

where (E_p) denotes the production-efficiency sub-index, (E_f) the financial-efficiency sub-index, (E_i) the innovation-efficiency sub-index, and (E_s) the social-efficiency sub-index. The coefficients (w_1 \dots w_4) represent the respective weighting coefficients, the sum of which equals 1. These coefficients are determined through expert evaluation in accordance with the strategic priorities of the enterprise. The sub-indices are normalized within the $[0;1]$ interval, enabling consistent comparison of the integral efficiency index over time and across enterprises once it is populated with actual reported data.

The practical relevance and broad applicability of the proposed mechanism are demonstrated by the dynamic development of Uzbekistan's technopark infrastructure. By 2025, the IT Park ecosystem had expanded to more than 3,400 resident companies, including over 970 enterprises with foreign capital. These residents generated combined revenue of approximately USD 1.6 billion and exported services to more than 90 countries [7]. In addition, national ICT service exports reached approximately USD 619.7 million in 2024, representing an increase of around 40 percent compared with the previous year [8].

These positive indicators reflect the growing scale, economic potential, and international competitiveness of Uzbekistan's technopark sector. Although the figures characterize the technopark ecosystem as a whole rather than the "Technopark" enterprise individually, they provide a strong basis for demonstrating the potential scope and significance of the proposed reinvestment-monitoring mechanism. The mechanism can contribute to the more targeted use of available fiscal incentives, strengthen innovation activity, and enhance the long-term efficiency of technopark resident enterprises.

The application of the integral efficiency index to the specific financial, production, innovation, and social indicators of the "Technopark" enterprise is envisaged for the empirical chapter of the author's dissertation. This subsequent stage will provide an opportunity to test the proposed model using actual enterprise-level data and to assess its practical effectiveness in a comprehensive and evidence-based manner.

The proposed conditional preferential-regime mechanism further develops Uzbekistan's existing general reinvestment approach in two important directions. First, the reinvestment objective is focused specifically on innovation-related expenditure, thereby strengthening the role of fiscal incentives in supporting research and development, technological modernization, staff development, and technology commercialization. Second, compliance is monitored through the technopark's own digital reporting infrastructure, which provides an integrated, transparent, and operationally convenient mechanism without requiring the introduction of a separate regulatory procedure.

Through this approach, the preferential regime becomes an active and results-oriented instrument that directs a portion of the fiscal support already provided by the state toward the innovation activities that underpin the granting of such preferences. At the same time, the mechanism is designed to operate without creating an



additional fiscal burden for either the enterprise or the state budget. It therefore contributes to improving the targeted use of incentives, strengthening accountability, and supporting the sustainable innovative development of technopark resident enterprises.

These findings are consistent with the broader development of Uzbekistan's digital economy, in which infrastructure-intensive sectors, including navigation and information technology services and transport enterprises, are increasingly adopting platform-based coordination, data exchange, and monitoring systems to support sustainable development [9, 10, 11]. This positive trend demonstrates that the digital-monitoring component of the proposed mechanism is not an isolated technical solution, but rather forms part of a wider institutional transformation already taking place across several sectors of the national economy.

The present article establishes the conceptual and methodological foundations of the integral efficiency index and the reinvestment-monitoring mechanism. This provides a strong analytical basis for the next stage of the research, which will focus on their quantitative validation using the "Technopark" enterprise's multi-year financial, production, innovation, and social indicators. Subsequent empirical research within the author's dissertation will also make it possible to determine the optimal minimum reinvestment ratio and to calibrate the weighting coefficients (w_1)–(w_4) in accordance with the strategic priorities and operational characteristics of the enterprise.

CONCLUSION AND SUGGESTIONS

The study confirms that the economic efficiency of industrial enterprises operating within technopark infrastructure is significantly influenced by the effective coordination of the organizational, economic, informational, and motivational components of their management mechanisms. Strengthening the interaction among these components creates favourable conditions for improving resource utilization, enhancing innovation activity, and ensuring the sustainable development of technopark resident enterprises.

The proposed improved economic incentive and resource-allocation mechanism is centred on a conditional and monitored linkage between preferential regimes and the reinvestment of resulting benefits in innovation activities. This mechanism is further supported by performance-oriented motivation, digitalized resource management, and cluster-level coordination. Together, these elements contribute to a more transparent, targeted, and results-oriented system of economic incentives.

The integral efficiency index complements the proposed mechanism by providing a comprehensive conceptual framework and a practical evaluation tool that can be applied to the "Technopark" enterprise and other comparable technopark residents. Its use enables the systematic assessment of production, financial, innovation, and social efficiency, while supporting informed managerial decision-making.

The next stage of the research will focus on the empirical testing and further refinement of the proposed mechanism and integral efficiency index using longitudinal data from the "Technopark" enterprise. This analysis, which forms the empirical chapter of the author's doctoral dissertation, will provide an opportunity to assess the practical effectiveness of the model and develop evidence-based recommendations for its broader application across technopark resident enterprises.

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