

# MUHANDISLIK

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TEXNOLOGIK VA INDUSTRIAL SANOATNI RIVOJLANTIRISH  
ORQALI MIKRO VA MAKROIQTISODIY BARQAROR  
O'SISHNI TA'MINLASH DOLZARBLIGI”

“GLOBAL DIGITAL INTEGRATION: THE RELEVANCE OF  
ENSURING MICRO AND MACROECONOMIC SUSTAINABLE  
GROWTH THROUGH TECHNOLOGICAL AND INDUSTRIAL  
DEVELOPMENT IN THE TRANSITION TO A GREEN  
ECONOMY BY 2030”

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МИКРО- И МАКРОЭКОНОМИЧЕСКОГО РОСТА ЧЕРЕЗ  
РАЗВИТИЕ ТЕХНОЛОГИЧЕСКОЙ И ИНДУСТРИАЛЬНОЙ  
ПРОМЫШЛЕННОСТИ В ПЕРЕХОДЕ К ЗЕЛЁНОЙ  
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- 05.01.00 – Axborot texnologiyalari, boshqaruv va kompyuter grafikasi
- 05.01.01 – Muhandislik geometriyasi va kompyuter grafikasi. Audio va video texnologiyalari
- 05.01.02 – Tizimli tahlil, boshqaruv va axborotni qayta ishlash
- 05.01.03 – Informatikaning nazariy asoslari
- 05.01.04 – Hisoblash mashinalari, majmualari va kompyuter tarmoqlarining matematik va dasturiy ta'minoti
- 05.01.05 – Axborotlarni himoyalash usullari va tizimlari. Axborot xavfsizligi
- 05.01.06 – Hisoblash texnikasi va boshqaruv tizimlarining elementlari va qurilmalari
- 05.01.07 – Matematik modellashtirish
- 05.01.11 – Raqamli texnologiyalar va sun'iy intellekt
- 05.02.00 – Mashinasozlik va mashinashunoslik
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- 05.05.05 – Issiqlik texnikasining nazariy asoslari
- 05.05.06 – Qayta tiklanadigan energiya turlari asosidagi energiya qurilmalari
- 05.06.01 – To'qimachilik va yengil sanoat ishlab chiqarishlari materialshunosligi
- 05.08.03 – Temir yo'l transportini ishlatish
- 05.09.01 – Qurilish konstruksiyalari, bino va inshootlar
- 05.09.04 – Suv ta'minoti. Kanalizatsiya. Suv havzalarini muhofazalovchi qurilish tizimlari
- 10.00.06 – Qiyosiy adabiyotshunoslik, chog'ishtirma tilshunoslik va tarjimashunoslik
- 10.00.04 – Yevropa, Amerika va Avstraliya xalqlari tili va adabiyoti
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- 08.00.02 – Makroiqtisodiyot
- 08.00.03 – Sanoat iqtisodiyoti
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- 08.00.07 – Moliya, pul muomalasi va kredit
- 08.00.08 – Buxgalteriya hisobi, iqtisodiy tahlil va audit
- 08.00.09 – Jahon iqtisodiyoti
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- 08.00.15 – Tadbirkorlik va kichik biznes iqtisodiyoti
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- 08.00.17 – Turizm va mehmonxona faoliyati

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# DEVELOPMENT OF MODERN METHODOLOGICAL APPROACHES IN THE MANAGEMENT OF THE ACTIVITIES OF SMALL INDUSTRIAL ZONES



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**Abstract.** This article examines the development of modern methodological approaches to managing the activities of small industrial zones. It analyzes the role of small industrial zones in economic development, existing challenges in their management, and modern management methods aimed at improving efficiency. The article also considers the impact of digital technologies, strategic planning, and innovative management approaches on the performance of small industrial zones. Based on the results of the study, scientific and practical recommendations are developed to enhance management efficiency.

**Keywords:** small industrial zones, management methodology, modern approaches, digital management, innovation, strategic planning, investment activity, economic development, regional economy, efficiency, cluster approach, infrastructure, public-private partnership, modernization.

**Annotatsiya.** Mazkur maqolada kichik sanoat zonalari faoliyatini boshqarishning zamonaviy metodologik yondashuvlarini rivojlantirish masalalari yoritilgan. Kichik sanoat zonalarining iqtisodiy rivojlanishdagi o'рни, ularni boshqarishdagi mavjud muammolar hamda samaradorlikni oshirishga qaratilgan zamonaviy boshqaruv usullari tahlil qilingan. Shuningdek, raqamli texnologiyalar, strategik rejalashtirish va innovatsion boshqaruv yondashuvlarining kichik sanoat zonalari faoliyatiga ta'siri ko'rib chiqilgan. Tadqiqot natijalari asosida boshqaruv samaradorligini oshirishga qaratilgan ilmiy-amaliy tavsiyalar ishlab chiqilgan.

**Kalit so'zlar:** kichik sanoat zonalari, boshqaruv metodologiyasi, zamonaviy yondashuvlar, raqamli boshqaruv, innovatsiyalar, strategik rejalashtirish, investitsion faoliyat, iqtisodiy rivojlanish, hududiy iqtisodiyot, samaradorlik, klaster yondashuvi, infratuzilma, davlat-xususiy sheriklik, modernizatsiya.

**Аннотация.** В данной статье рассматриваются вопросы развития современных методологических подходов к управлению деятельностью малых промышленных зон. Проанализированы роль малых промышленных зон в экономическом развитии, существующие проблемы их управления, а также современные методы управления, направленные на повышение эффективности. Кроме того, рассмотрено влияние цифровых технологий, стратегического планирования и инновационных управленческих подходов на деятельность малых промышленных зон. По результатам исследования разработаны научно-практические рекомендации, направленные на повышение эффективности управления.

**Ключевые слова:** малые промышленные зоны, методология управления, современные подходы, цифровое управление, инновации, стратегическое планирование, инвестиционная деятельность, экономическое развитие, региональная экономика, эффективность, кластерный подход, инфраструктура, государственно-частное партнёрство, модернизация.

## INTRODUCTION

Small industrial zones play an important role in diversifying the economy, developing industrial production in the regions, attracting investment, and ensuring employment. Their effective operation is largely determined by the modernity of the management system and the methodological approaches applied. Today, structural



changes in the economy, the acceleration of digitalization processes, and increasing global competition require the introduction of new, effective, and innovative methodological approaches to the management of small industrial zones.

The relevance of this topic is explained by the fact that traditional methods of managing small industrial zones are not sufficiently effective under modern economic conditions. Therefore, there is a growing need to improve resource utilization efficiency and enhance investment attractiveness. In this regard, the development of modern management concepts and their practical implementation are of great scientific and practical importance.

This study employed various research methods, including systematic and comparative analysis, economic and statistical analysis, generalization, correlation and regression analysis, grouping, economic modelling, and forecasting techniques.

Small industrial zones (SIZs) have emerged as important institutions for the development of the regional economy, the expansion of industrial production, and the support of business entities. Their effective operation depends not only on the volume of infrastructure and investment but also on how the management system is organized. Therefore, the development of modern methodological approaches to the management of SIZs is an urgent scientific and practical issue.

In modern conditions, traditional management methods often cannot fully meet the requirements of a rapidly changing economic environment. Increased competition, the globalization of investment flows, and the development of the digital economy require the introduction of new approaches to SIZ management. These approaches help simplify management processes, ensure the efficient use of resources, and increase the speed of decision-making.

One important direction of modern methodological approaches is the introduction of digital management systems. The registration of resident enterprises, monitoring of investment projects, and automation of data exchange through electronic platforms can significantly improve management efficiency. This contributes to ensuring transparency and reducing bureaucratic barriers.

A strategic management approach is also important. Long-term development strategies should be developed by taking into account the territorial capabilities, resource base, and logistics conditions of each small industrial zone. This approach ensures the sustainable development of industrial zones and transforms them into competitive economic entities.

The cluster approach is another important component of modern methodology. In small industrial zones, an added value chain can be formed by integrating production, service, and logistics entities. This increases production efficiency and reduces production costs.

In addition, the use of public-private partnership mechanisms is one of the important directions of modern management approaches. Through this mechanism, the financing and management efficiency of infrastructure projects can be improved, while the participation of the private sector is expanded.

The management of small industrial zones is currently one of the important directions of regional economic development and serves as a key factor in increasing production capacity, attracting investment, and creating new jobs. The effective organization of this process requires the integrated use of modern methodological approaches.

In modern management practice, digital technologies, strategic planning, the cluster model, public-private partnership, and continuous monitoring and analysis systems play an important role in increasing the competitiveness of small industrial zones. These approaches help simplify management processes, ensure transparency, and use resources effectively.

The table below systematically presents the main modern methodological approaches used in the management of small industrial zones, their content, and expected results (Table 1).

**Table 1**  
Modern methodological approaches in the management of small industrial zones

| Approach                   | Content                                       | Result                             |
|----------------------------|---|------------------------------------|
| Digital Governance         | Process management through electronic systems | Transparency and speed increase    |
| Strategic Planning         | Defining long-term development directions     | Sustainable development is ensured |
| Cluster Approach           | Integrating enterprises                       | Production efficiency increases    |
| Public-Private Partnership | Implementing joint investments and projects   | Investment volume increases        |
| Monitoring and Analysis    | Continuous monitoring of performance results  | Management decisions improve       |



According to the analysis presented in the table, one of the most important directions in the management of small industrial zones is the introduction of digital management systems, which accelerate administrative processes and ensure transparency. Strategic planning, in turn, provides a basis for long-term sustainable development. The cluster approach increases efficiency by integrating production, service, and logistics processes, while public-private partnership mechanisms contribute to increasing investment inflows.

The monitoring and analysis system enables informed and effective management decisions by providing timely and reliable information on the performance of small industrial zones. Overall, the integrated application of these approaches significantly increases the economic and organizational efficiency of small industrial zones and contributes to their sustainable development.

## CONCLUSION AND RECOMMENDATIONS

The development of modern methodological approaches to managing the activities of small industrial zones is of great importance for increasing their economic efficiency and strengthening regional industrial potential. Today, the rapidly changing economic environment, digital transformation processes, and increasing investment competition require more effective and flexible approaches to management systems.

The results of the study show that the implementation of digital management systems, the improvement of strategic planning, the use of the cluster approach, and the expansion of public-private partnership mechanisms are important priority areas in the management of small industrial zones. These approaches increase the transparency of management processes, ensure the efficient use of resources, and enhance investment attractiveness.

Modern methodological approaches also contribute to the development of innovative activities in small industrial zones, the improvement of production efficiency, and the creation of new jobs. This, in turn, has a positive impact on the socio-economic development of the regions.

In general, the modernization of the management system of small industrial zones and the improvement of methodological approaches are of strategic importance for ensuring economic stability and increasing the competitiveness of the national economy.

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