



MODERN WAYS OF INCREASE PRODUCT PRODUCTION EFFICIENCY IN REGIONAL SMALL INDUSTRY ENTERPRISES

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Annotation: This article, written on the topic of modern ways of increasing the productivity of small-scale industrial enterprises in the region, shows how various technological approaches and innovative methods are used to increase the efficiency of small-scale industrial enterprises. In the article, modern technological approaches and methods, such as automation and robotics, IoT (Internet of Things), technological innovations, scaled analytics and data analysis, processing and innovation, are presented to effectively and optimize the production processes of small industrial enterprises.

Keywords: Automation, Robotics, IoT (Internet of Things), Technological innovation, Scalable analytics, Data analysis, Processing, Enterprise management, Optimization, Product development, Automation, Technological approaches.

The importance of increasing the efficiency of production in small industrial enterprises of the region, the role of the use of innovative and technological approaches by small industrial enterprises in their development and strengthening is very great.

Automation and Robotics: Businesses can optimize their work processes by using automation technologies and robotics. Robots and automation systems speed up production processes, reduce the number of errors and help solve problems for workers.

IoT (Internet of Things): The Internet of Things (IOT) technology enables these businesses to connect and interoperate with products and devices. With the help of these technologies, it is possible to facilitate automatic data collection for production processes, monitoring and control systems, as well as process control.

Technological Innovations: The latest technological innovations, 3D printers, can help make manufacturing processes easier and more efficient. 3D printers enable additive manufacturing of tools, prototypes, and other components, as well as help test prototypes and accelerate new products.

Scalable Analytics and Data Analytics: With data analytics and scalable analytics, businesses can effectively use data to optimize their production processes, identify customer requirements, and increase discretion.





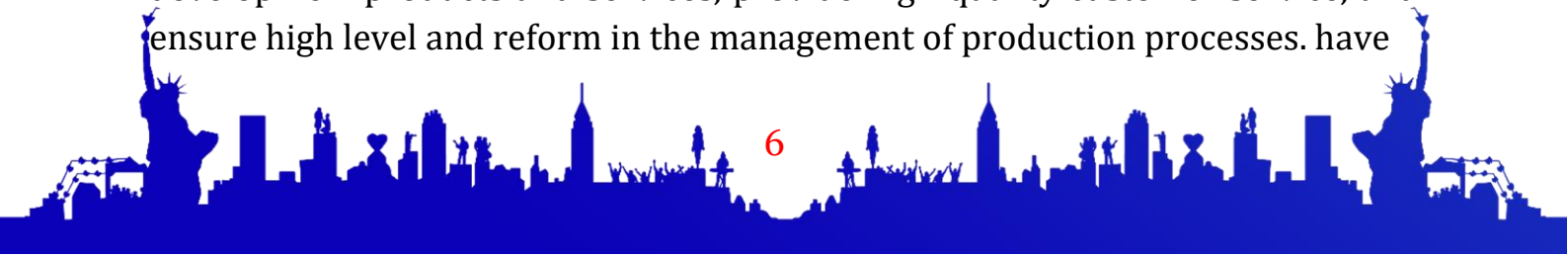
Recycling and Innovation: Creative technological approaches can be used to increase productivity in small scale industries in the region. It helps in technological approaches, innovation of production processes, development of new products and services and response to customer demands and needs.

These ways are important in increasing the efficiency of small industrial enterprises, and it is recommended to implement them by integrating them with innovative technologies and data analytics and creating appropriate projects.

If we analyze the foreign and national literature, we can find out how small industrial enterprises use new and latest innovative technologies, how to implement them efficiently and optimally in their production processes, how to make the production processes of small industrial enterprises efficient and reduce waste. detailed information about the actions is provided. The literature on increasing the efficiency of production in small industrial enterprises of the region shows that the management and managerial processes of enterprises have technological approaches, marketing strategies and other fundamentals. Economics and Industrial Management provides information on the basics of economic and industrial management of small industrial enterprises, how to integrate sufficient resources and financial management into efficient production processes. Processing and technological approaches. The literature on increasing the efficiency of production in small industrial enterprises of the region, emphasizes how recycling and innovative technological approaches help to optimize the production processes in the enterprise.

Modern ways of increasing production efficiency in small industrial enterprises of the region is one of the processes that are looking for an answer to a question of critical importance for enterprises. These ways have become an important step for enterprises to ensure efficient and optimized production processes, better management of performance and regulation with customer requirements.

Modern pathways include the fundamental principles of automation and robotics, IoT (Internet of Things), technological innovation, scalable analytics and data analysis, processing and innovation, enterprise management, product development, and effective management. They ensure the use of new and modern technologies of small industrial enterprises and allow their development. In order to increase efficiency, small industrial enterprises use innovative approaches, expand automation, optimize enterprise management, develop new products and services, provide high-quality customer service, and ensure high level and reform in the management of production processes. have

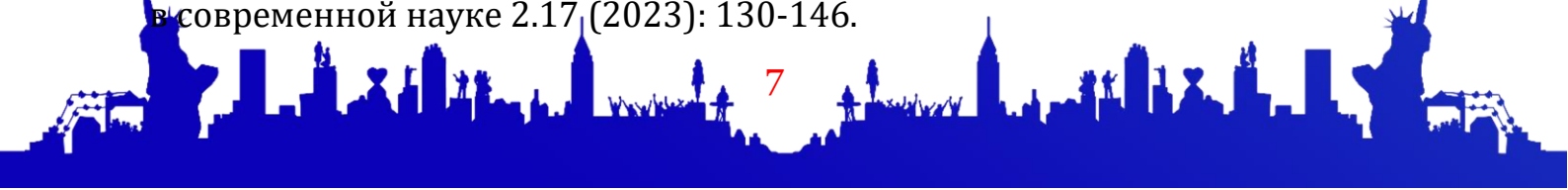




It should be concluded that the use of modern approaches to increase the efficiency of small industrial enterprises plays an important role in their production of new products and high-quality service to customers. These approaches help businesses to develop, efficiently, and technologically manage their business, expand their market reach, and facilitate simple billing.

List of used literature:

1. Qodirov, F. "Ijtimoiy va xizmat ko'rsatish sohasini rivojlantirishda sog'liqni saqlash xizmatlarini ekonometrik modellashtirishning ahamiyati." O'zR FA VI Romanovskiy nomidagi Matematika instituti (2022).
2. Qodirov, F. "Qashqadaryo hududi aholisiga xizmat ko'rsatish tarmoqlari va ularga ta'sir etuvchi omillar." O'zbekiston Qishloq Va Suv xo'jaligi" Jurnal (2022).
3. QODIROV, F. "Axoliga xizmat ko'rsatish soxasining modellashtirishni tizimli imitatsiya qilish." IJTISODIY ILMIY-AMALIY OYLIK NASHR (2022).
4. Qodirov, F. "Aholiga tibbiy xizmat ko'rsatish sohasining kelgusi holatini bashoratlash." Samarqand iqtisodiy va servis instituti (2022).
5. Qodirov, F. "Hududlarda tibbiy xizmatlarni dasturiy paketlar yordamida elektron tibbiy bazasini yaratish." O'zbekiston Respublikasi Oliy Va o'rta Maxsus ta'lim Vazirligi Namangan Muhandislik-Qurilish Instituti (2022).
6. Qodirov, F. "Hududlarda tibbiy xizmat ko'rsatishni ekonometrik modellashtirish." Xorazm ma'mun akademiyasi axborotnomasi (2022).
7. Qodirov, F. "Qashqadaryo viloyati aholisiga tibbiy xizmat ko'rsatish tarmoqlarini rivojlantirishning istiqbollari." O'ZBEKISTON QISHLOQ VA SUV XO'JALIGI» àà «AGRO ILM (2022).
8. Qodirov, F. "Qishloq aholisiga sog'liqni saqlash xizmatlari ko'rsatish tarmoqlari rivojlanish mexanizmining statistik tahlili." Andijon Mashinasozlik Instituti (2022).
9. Qodirov, Farrux. "Aholiga tibbiy xizmat ko'rsatishdan olingan daromad va xarajatlarni imitatsion modeli." Moliya bozorini rivojlantirishning ustuvor yo'nalishlari, zamonaviy tendensiyalari va istiqbollari" mavzusidagi Respublika ilmiy-amaliy konferensiyasi materiallar to'plami 11 (2022): 5.
10. Qodirov, Farrux, and Suxrojon Jo'rayev. "JAVA PROGRAMMING LANGUAGE DEVELOPMENT OF SOFTWARE PRODUCTS AS AN EXAMPLE OF THE ANDROID SYSTEM." Theoretical aspects in the formation of pedagogical sciences 2.13 (2023): 137-141.
11. Qodirov, Farrux, Nurbek Sirojev, and Sevinch Negmatova. "FEATURES OF THE ANDROID STUDIO SOFTWARE PACKAGE." Академические исследования в современной науке 2.17 (2023): 130-146.





12. Qodirov, F. "OPTIMIZATION OF TELECOMMUNICATIONS POWER SUPPLY SYSTEMS BASED ON RELIABILITY CRITERIA." Science and innovation 2.A12 (2023): 15-20.
13. Ergash o'g'li, Qodirov Farrux. "O'zgaruvchilari ajralgan va ajraladigan differensial tenglamalar/Barqarorlik va yetakchi tadqiqotlar onlayn ilmiy jurnali." (2022): 20.
14. Ergash o'g'li, Qodirov Farrux. "Stoks Formulasi. Sirt Integrallari Tadbiqlari/Ijtimoiy fanlarda innovasiya onlayn ilmiy jurnali." (2022): 15.
15. F Qodirov. Aholiga tibbiy xizmatlar ko'rsatishning rivojlanishini iqtisodiy-matematik modellashtirish. Scienceweb academic papers collection . 2023/1/1.

