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**“GLOBAL RAQAMLI INTEGRATSIYALASHUV:
2030-YILGACHA YASHIL IQTISODIYOTGA O'TISHDA
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”**

**«ГЛОБАЛЬНАЯ ЦИФРОВАЯ ИНТЕГРАЦИЯ:
АКТУАЛЬНОСТЬ ОБЕСПЕЧЕНИЯ УСТОЙЧИВОГО
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 modellash
- 05.01.11 – Raqamli texnologiyalar va sun'iy intellekt
- 05.02.00 – Mashinasozlik va mashinashunoslik
- 05.02.08 – Yer usti majmualari va uchish apparatlari
- 05.03.02 – Metrologiya va metrologiya ta'minoti
- 05.04.01 – Telekommunikatsiya va kompyuter tizimlari, telekommunikatsiya tarmoqlari va qurilmalari. Axborotlarni taqsimlash
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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
- 08.00.01 – Iqtisodiyot nazariyasi
- 08.00.02 – Makroiqtisodiyot
- 08.00.03 – Sanoat iqtisodiyoti
- 08.00.04 – Qishloq xo'jaligi iqtisodiyoti
- 08.00.05 – Xizmat ko'rsatish tarmoqlari iqtisodiyoti
- 08.00.06 – Ekonometrika va statistika
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- 08.00.08 – Buxgalteriya hisobi, iqtisodiy tahlil va audit
- 08.00.09 – Jahon iqtisodiyoti
- 08.00.10 – Demografiya. Mehnat iqtisodiyoti
- 08.00.11 – Marketing
- 08.00.12 – Mintaqaviy iqtisodiyot
- 08.00.13 – Menejment
- 08.00.14 – Iqtisodiyotda axborot tizimlari va texnologiyalari
- 08.00.15 – Tadbirkorlik va kichik biznes iqtisodiyoti
- 08.00.16 – Raqamli iqtisodiyot va xalqaro raqamli integratsiya
- 08.00.17 – Turizm va mehmonxona faoliyati

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ASSESSMENT OF THE ECONOMIC EFFICIENCY OF REAL-TIME DATA PROCESSING SYSTEMS

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Abstract. This thesis examines the economic efficiency of real-time data processing systems in modern enterprises. It focuses on the use of IoT technologies, sensor networks, automated monitoring tools, cloud platforms, and enterprise information systems for processing operational data. The study highlights the potential of real-time data processing to reduce operating costs and equipment downtime, improve resource utilization, and support faster managerial decision-making. Particular attention is paid to key factors affecting economic efficiency, including system scalability, integration costs, data quality, and organizational readiness. The findings indicate that real-time data processing can contribute to improved operational efficiency, information quality, and enterprise adaptability.

Keywords: real-time data, data processing, economic efficiency, IoT, digital technologies, operating costs, monitoring, enterprise performance, managerial decision-making.

Annotatsiya. Ushbu tezisdagi zamonaviy korxonalarda real vaqt rejimida ma'lumotlarni qayta ishlash tizimlarining iqtisodiy samaradorligi ko'rib chiqilgan. Operatsion ma'lumotlarni qayta ishlashda IoT texnologiyalari, sensor tarmoqlari, avtomatlashtirilgan monitoring vositalari, bulutli platformalar va korxona axborot tizimlaridan foydalanishga e'tibor qaratilgan. Tadqiqotda real vaqt rejimida ma'lumotlarni qayta ishlashning operatsion xarajatlar va uskunalarni to'xtatib qolishini kamaytirish, resurslardan foydalanish samaradorligini oshirish hamda boshqaruv qarorlarini tezroq qabul qilish imkoniyatlari yoritilgan. Tizimning masshtablanuvchanligi, integratsiya xarajatlari, ma'lumotlar sifatida va tashkiliy tayyorgarlik iqtisodiy samaradorlikka ta'sir etuvchi asosiy omillar sifatida ko'rib chiqilgan. Natijalar real vaqt rejimida ma'lumotlarni qayta ishlash korxonalarda operatsion samaradorlik, axborot sifatida va moslashuvchanlikni oshirishga xizmat qilishi mumkinligini ko'rsatadi.

Kalit so'zlar: real vaqt ma'lumotlari, ma'lumotlarni qayta ishlash, iqtisodiy samaradorlik, IoT, raqamli texnologiyalar, operatsion xarajatlar, monitoring, korxona samaradorligi, boshqaruv qarorlarini qabul qilish.

Аннотация. В тезисе рассматривается экономическая эффективность систем обработки данных в реальном времени на современных предприятиях. Особое внимание уделено использованию технологий IoT, сенсорных сетей, автоматизированных средств мониторинга, облачных платформ и корпоративных информационных систем для обработки оперативных данных. В исследовании раскрывается потенциал обработки данных в реальном времени для снижения операционных затрат и простоев оборудования, повышения эффективности использования ресурсов и ускорения принятия управленческих решений. В качестве ключевых факторов, влияющих на экономическую эффективность, рассматриваются масштабируемость системы, затраты на интеграцию, качество данных и организационная готовность. Результаты показывают, что обработка данных в реальном времени может способствовать повышению операционной эффективности, качества информации и адаптивности предприятия.

Ключевые слова: данные в реальном времени, обработка данных, экономическая эффективность, IoT, цифровые технологии, операционные затраты, мониторинг, эффективность предприятия, принятие управленческих решений.

INTRODUCTION

The economic efficiency of real-time data processing systems should be evaluated not only through direct cost reduction but also through the value created by faster information flows, better coordination, and improved operational visibility. In modern enterprises, the speed at which information is generated and converted into decisions increasingly determines the quality of management. Therefore, the economic role of real-time systems is closely connected with shortening the interval between data generation, analysis, and managerial response.

One of the potential economic benefits of real-time processing is the reduction of information latency. When production, sales, logistics, or technical data are processed with delays, managers may respond to events after their economic consequences have already occurred. Real-time architectures reduce this delay and allow enterprises to detect negative trends at an earlier stage. This can improve the efficiency of inventory management, production scheduling, order fulfillment, and capacity utilization.

From an economic perspective, real-time data processing systems generate both direct and indirect effects. Direct effects include lower monitoring costs, reduced manual data entry, fewer operational errors,



and faster reporting. Indirect effects are associated with improved planning accuracy, reduced uncertainty, better customer service, and more effective coordination between departments. In many cases, these indirect effects may be comparable to or exceed direct savings because they influence the overall quality of enterprise management.

A useful distinction can be made between four groups of economic effects generated by real-time systems.

Table 1

Classification of economic effects generated by real-time data processing systems¹

Group of effects	Main content	Possible enterprise result
Cost effects	Automation of monitoring, reporting, and control processes	Lower administrative and operating costs
Time effects	Faster access to operational information	Shorter response and decision-making time
Quality effects	More accurate and timely data	Fewer errors and more reliable decisions
Strategic effects	Better forecasting and coordination	Higher adaptability and long-term competitiveness

Another important factor is the scalability of real-time systems. A small enterprise may initially use such technologies only in one production unit or functional department. As the volume of data and the number of digital devices increase, the system must be able to process larger information flows without a significant increase in unit costs. Therefore, economic efficiency depends on whether the technological architecture can be expanded gradually and integrated with existing information systems.

Cloud and edge computing technologies are increasingly important in this context. Cloud platforms provide flexible storage and computing capacity, while edge computing allows selected data to be processed close to the source of generation. This is particularly relevant when the enterprise needs to reduce network load or make decisions with minimal delay. The combination of these approaches can improve system responsiveness while controlling infrastructure costs.

The assessment of economic efficiency should also include the cost of system integration. Real-time processing does not operate independently from other enterprise systems. Its effectiveness depends on compatibility with ERP, CRM, MES, financial accounting, logistics, and business intelligence platforms. If these systems are poorly integrated, additional costs may arise due to data duplication, inconsistent formats, and repeated processing. Therefore, interoperability becomes an important economic factor.

Data quality is another central issue. The value of real-time analysis depends on the reliability of incoming information. High-speed processing of inaccurate data may limit the economic value of such systems and may even increase the risk of incorrect decisions. For this reason, enterprises should consider data validation, synchronization, standardization, and access control as part of the economic assessment of real-time systems.

The human factor also affects the economic outcome of digital investments. Employees need to understand not only how to operate digital tools but also how to interpret real-time indicators and use them in practical decision-making. A technologically advanced system may produce limited economic benefits if managers continue to rely mainly on traditional reporting methods. Consequently, organizational readiness and digital management culture should be considered alongside technical investment.

The economic value of real-time systems may be particularly relevant in environments characterized by high variability and uncertainty. In such conditions, static planning models may become outdated quickly. Real-time information allows enterprises to revise operational priorities more frequently, redistribute resources, and respond to unexpected changes in demand, supply, or production capacity.

In addition, these systems can improve transparency across the enterprise. When departments have access to synchronized and consistent information, coordination costs decline. Production units, logistics departments, finance teams, and managers can use the same data environment, reducing the risk of conflicting reports and delayed communication.

For this reason, the economic efficiency of real-time data processing systems can be considered a multidimensional concept. It includes not only financial savings but also improvements in speed, accuracy, adaptability, transparency, and management quality. A comprehensive assessment should therefore combine operational and strategic indicators.

¹ Developed by the author



CONCLUSION AND SUGGESTIONS

Real-time data processing systems create economic value primarily by reducing information delays and improving the quality of enterprise coordination. Their contribution goes beyond the automation of individual tasks and includes faster decision-making, better system integration, improved planning, and greater organizational adaptability.

The level of economic efficiency depends on several interrelated factors: system scalability, integration costs, data quality, cloud and edge architecture, employee competencies, and managerial readiness. Therefore, real-time technologies should be evaluated as part of the broader digital management system of the enterprise rather than as isolated technological solutions.

A comprehensive approach to assessment makes it possible to identify not only direct financial effects but also indirect benefits associated with time savings, higher information quality, improved transparency, and reduced uncertainty. This provides a more accurate understanding of the contribution of real-time data processing systems to long-term enterprise performance. In practical terms, enterprises should introduce real-time processing systems gradually, beginning with operational areas where delays and data fragmentation have the greatest economic impact. It is also advisable to ensure compatibility with existing information systems and to strengthen employee competencies in the interpretation and practical use of real-time data.

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