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***International scientific and practical conference.*** International scientific and Applied Research. 10.05.2025.

In the collection of materials of the conference, the role and role of Science, Education and production in the era of globalization, the pressing problems of the issues of interaction of these processes, feedback on their solutions were presented by mature specialists of the field.

In addition, research on the scientific and practical topic, carried out in the economics, Exact Sciences, Natural Sciences and socio-humanities during the globalization period, information is presented in the scientific and practical fields, which includes the latest innovative technologies in the fields of production.

It can be argued that this collection is one of the specific intersections of current thoughts and innovative ideas of the world of science. This scientific and practical conference was actively attended by professors and scientific researchers engaged in scientific research in Uzbekistan and foreign countries. In increasing the position of the scientific and practical conference, the professors and teachers of domestic and foreign higher educational institutions made a significant contribution.

Professors and teachers of foreign higher educational institutions who actively participated in the work of the conference made a worthy contribution to the high level of interaction with scientists of our country. The processes of international cooperation with foreign countries and exchange with them in the field of Science in the era of globalization have a positive effect on the development of Higher Education, the fields of Science and production. The materials of this conference are special in that they include a wide range of research, from theoretical developments to practical solutions, demonstrating the diversity of approaches and directions in this area.

In conclusion, it should be noted that this scientific and practical conference will be a very useful collection for everyone who is interested in modern research in the fields of further development of Higher Education, Science, Education and production in the era of globalization. The authors are responsible for the content and quality of the articles and abstracts included in the collection.

## LOGISTIKA XIZMATLARI SAMARADORLIGINI OSHIRISHDA BLOKCHEYN TEXNOLOGIYALARINING O'RNI

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**Annotatsiya:** Ushbu maqolada zamonaviy logistika sohasida blokcheyn texnologiyalarining ahamiyati va u orqali xizmat ko'rsatish samaradorligini oshirish imkoniyatlari tahlil qilinadi. Shuningdek, real misollar, statistik ma'lumotlar va uchta tahliliy jadval orqali mavzuning dolzarbligi asoslanadi.

**Kalit so'zlar:** logistika, blokcheyn, yetkazib berish zanjiri, raqamli xavfsizlik, xizmat sifati, shaffoflik.

### Kirish

Zamonaviy iqtisodiyotda logistika xizmatlarining samaradorligi mamlakatning tashqi savdo salohiyati va ichki bozor muvozanatini ta'minlashda muhim o'rin tutadi. So'nggi yillarda global miqyosda yetkazib berish zanjiri jarayonlari murakkablashib, uni boshqarish yanada ko'proq aniqlik, shaffoflik va ishonchlilikni talab qilmoqda. Aynan shu ehtiyojlar zahirida yangi texnologik yechimlar, xususan, **blokcheyn texnologiyasi** logistika sohasida keng qo'llanilmoqda.

Blokcheyn — bu markazlashtirilmagan raqamli tizim bo'lib, u orqali turli bosqichlardagi ma'lumotlar zanjirli shaklda, o'zgartirilmaydigan tarzda saqlanadi. Bu texnologiya yordamida yuklarning harakati, hujjatlarning to'g'riligi va moliyaviy operatsiyalar real vaqt rejimida kuzatib borilishi mumkin. Ayniqsa, logistika tizimida ishtirok etayotgan tomonlar o'rtasida o'zaro ishonchni kuchaytirish, vositachilarsiz va avtomatlashtirilgan jarayonlarni joriy etish imkonini yaratadi.

Mazkur maqolada blokcheyn texnologiyalarining logistikada qanday qo'llanilayotgani, ular orqali xizmat samaradorligi, vaqt va xarajat tejallishi hamda xizmat sifati qanday oshayotgani tahlil qilinadi. Shu bilan birga, O'zbekiston misolida mavjud tendensiyalar va statistik ma'lumotlar asosida amaliy natijalar yoritiladi.

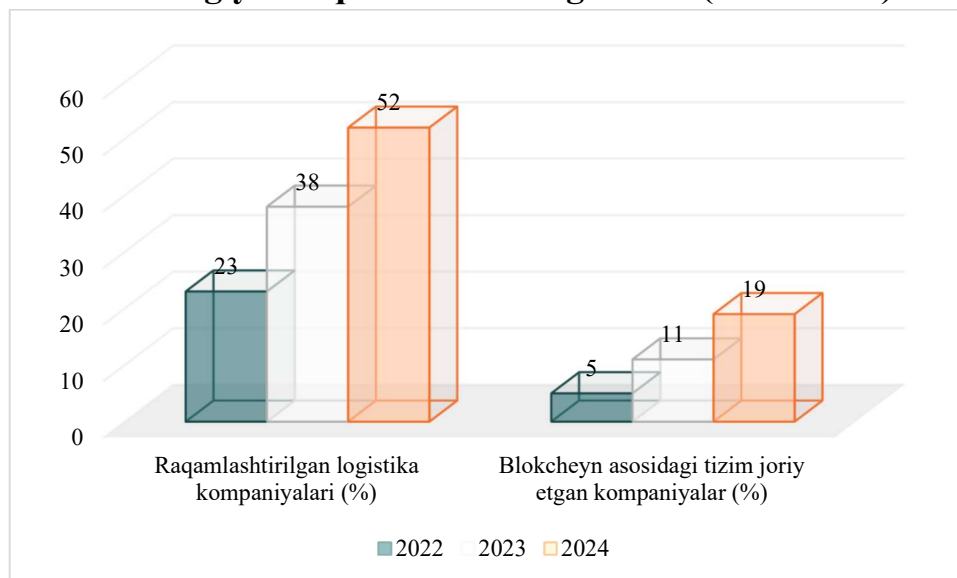
So'nggi yillarda logistika sohasida raqamli texnologiyalar, ayniqsa, **blokcheyn texnologiyasi** asosidagi tizimlar keskin rivojlanmoqda. Yetkazib berish zanjirida ma'lumotlar harakatining shaffofligi, real vaqt rejimidagi kuzatuv, soxtalashtirishdan himoyalash imkoniyatlari logistika xizmatlarining samaradorligiga bevosita ta'sir ko'rsatadi.

**1-jadval. Logistika zanjirida muammolar va blokcheynning yechimlari**

№	An'anaviy muammo	Blokcheyn yechimi
1	Huquqiy hujjatlarning soxtalashtirilishi	Ma'lumotlar o'zgartirilmasligi (immutability)
2	Yetkazib berishdagi noaniqliklar	Real vaqt monitoringi
3	Xavfsizlik pastligi	Ma'lumotlar shifrlanishi va tarqatma tizim
4	O'rtachilar orqali kechikishlar	Smart-kontraktlar orqali avtomatik bajaruv
5	Xarajatlarning oshib borishi	Ishlab chiqaruvchi-buyer o'rtasidagi to'g'ridan-to'g'ri aloqa

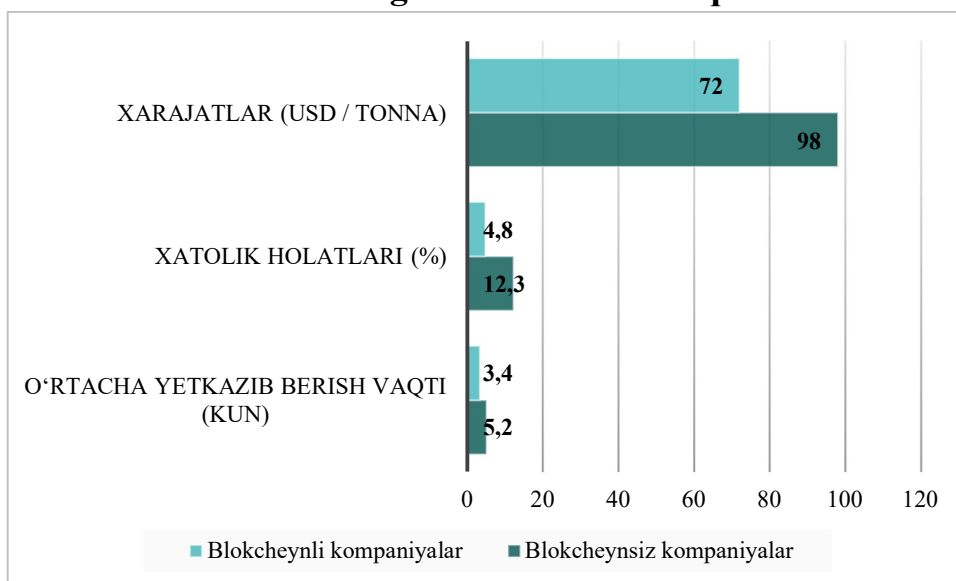
Ushbu jadvaldan ko'rinib turibdiki, blokcheyn texnologiyasi mavjud muammolarning aksariyatiga samarali yechim taklif qiladi. Ayniqsa, real vaqt rejimidagi kuzatuv va ma'lumotlarning o'zgartirilmasligi yuk harakati ishonchliligini oshiradi.

**1-diagramma. O'zbekiston logistika xizmatlarida raqamli texnologiyalar qo'llanilishining ulushi (2022–2024)**



Ma'lumotlar shuni ko'rsatadiki, O'zbekistonda logistika xizmatlarining raqamlashtirilishi jadallashmoqda. Ayniqsa blokcheyn texnologiyalarining ulushi har yili oshib bormoqda. Bu esa ularning istiqboli borasida ijobiy prognozlar berish imkonini beradi.

## 2-diagramma. Blokcheyn joriy etilgan va etilmagan kompaniyalar o'rtasidagi samaradorlik farqi



Blokcheyn texnologiyasi joriy etilgan kompaniyalarda xizmat sifati oshgan, yetkazib berish vaqti qisqargan va operatsion xarajatlar kamaygan. Bu holat texnologiyaning samaradorligini ochiq ko'rsatadi.

Asosiy natijalarni quyidagilarda ko'rishimiz mumkin:

1. Blokcheyn texnologiyasi logistika xizmatlarining eng og'riqli nuqtalarini optimallashtirishda keng imkoniyat yaratadi.
2. O'zbekistonda bu texnologiyani tatbiq etgan kompaniyalar soni yil sayin ortmoqda.
3. Statistika shuni ko'rsatadiki, blokcheyn joriy etilgan kompaniyalar xizmat ko'rsatish tezligi va ishonchliligi bo'yicha ancha samaralidir.

### Xulosa

Logistika xizmatlari bozorida raqobat kuchayib borayotgan bir sharoitda kompaniyalar blokcheyn texnologiyalaridan foydalanib, **shaffoflik**, **xavfsizlik**, **tezkorlik** va **samaradorlik**ni ta'minlashlari mumkin. O'zbekistonda ham bu yo'nalishda hukumat va xususiy sektor tomonidan qo'llab-quvvatlash dasturlari orqali texnologiyani keng tatbiq etish dolzarb hisoblanadi.

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