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ARTIFICIAL INTELLIGENCE TECHNOLOGIES AFFECT THE ECONOMY AND BUSINESS: TRENDS AND GOALS

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Abstract

Article discusses about artificial intelligence technologies affect the economy and business: trends and goals.

Keywords: Digital Economy, Artificial Intelligence, technology, affect, Economy, Business, trends, goals.

Introduction

According to official data , the level of implementation of artificial intelligence in the economy is now 20% in Asia. The government plans to increase this figure to 50% by 2024. It is planned to allocate 5.4 billion rubles from the federal budget to support projects related to AI . In January, the government unveiled a roadmap for AI development in the country. One of the forecasts announced during the meeting suggests that the share of the contribution of artificial intelligence technologies to the country's economy by 2025 could reach 2%.

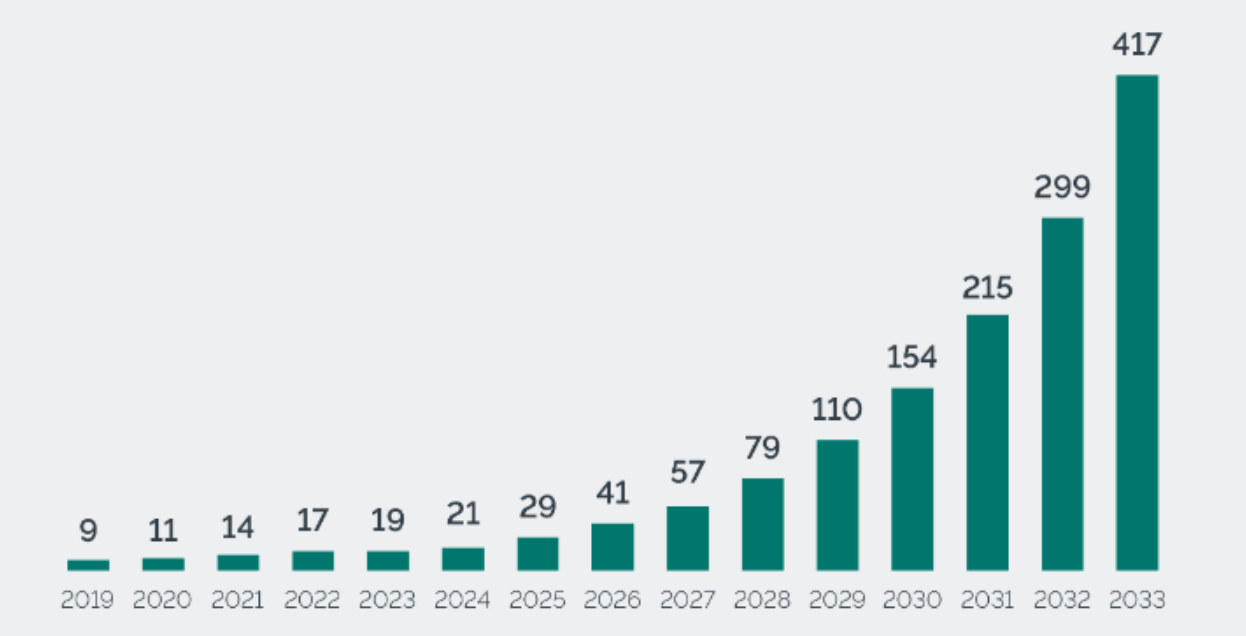

Fig.1. Size of the AI market in the Central Asia, billion dollars.

The roadmap contains two key dates: 2024 and 2030. The first date is set as a transit date; before it, it is planned to close all the shortcomings as much as possible and introduce domestic

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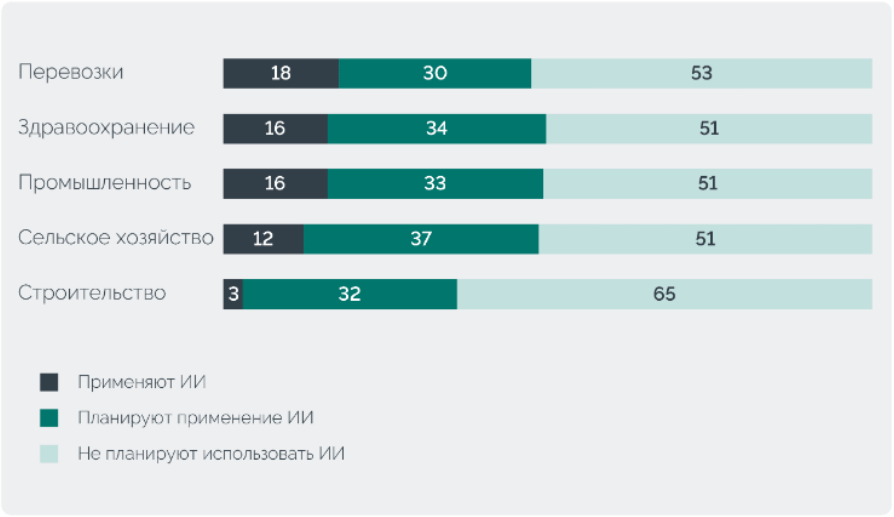
solutions into all niches of the economy. The total budget for implementation is 29.2 billion rubles. The second date refers to more global goals.

In addition to the map, in 2022, GOST for clinical trials of AI was developed and introduced, and the National Center for the Development of Artificial Intelligence was launched.

How AI affects the economy

According to the center, the financial, IT and communications sectors are leading in the direction of AI integration in Asia. The level of implementation of artificial intelligence technologies here reaches 53% of companies. Next in terms of the level of use of AI are organizations in the fuel and energy complex, industry, transport companies and the medical sector.

Use of AI by organizations in priority sectors of the economy, %



16%

companies in the healthcare industry are using AI technologies

Modern economists and IT analysts believe that the level of development of artificial intelligence technologies largely indicates the economic strength, technological and scientific potential of the state. For the Asian market, these technologies, including in mass-use products, are not something outlandish. Every year, dozens of new AI-based projects are launched on the market.

In 2022, there were fears that after the massive departure of international vendors, who have always set a high bar for the market, Central Asia would risk falling behind in technology, and the loss of the most advanced technologies based on artificial intelligence would set back Asian development for many years. However, the market did not fall into depression, but, on the contrary, began working on creating high-tech products with redoubled force. The impetus for this process comes from the high interest of direct customers who need prompt and high-quality replacement of Western software without loss of production efficiency, as well as extensive government support measures.

In 2022, 3.5 billion rubles were allocated in the form of targeted grants to support companies developing various AI solutions. In total, from 2021 to 2023, the state helped 406 AI projects, and by 2024 their number is planned to increase to 569.

Latest developments and achievements

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At the end of May 2023, the register of domestic software included more than 140 solutions containing artificial intelligence technologies and another 139 were in line for consideration. These include video analytics systems, communication platforms, software for working with digital medical images - there are options for almost every area of business. An example of a product that recently made it onto this list is ContentReader Engine from Content AI. The tool allows you to embed intelligent data recognition technologies into applications.
Examples of solutions for different areas of business from the registry:

Transport and logistic

- Vessel traffic control system "Navi-Master".
- System for development, intellectual search and content analysis of documents of JSC Uzbekistan Railways (EIS ND).

Video analytics, computer vision

- Hybrid video analytics system based on the use of neural networks (PC “VADI”).
- Angel.Vision.
- Video streams of typical defects in steel ropes.

Conversational applications (chatbots and voice assistants)

-TalkBank Platform.
- ChatNavigator.
- "Automated Voice Agent. Version 2.0".

Medicine

Software for working with digital medical images Retina.AI.
Software for analyzing mammographic images "TrioDM-MT".
Intelligent configuration of equipment, control of suppliers, monitoring of information about counterparties, automatic assessment of property, voice assistants and much more are already actively used in business. There are about 40 medical solutions alone.
Integrating artificial intelligence into ERP reduces the incidence of errors in packaging and transporting products. You can add numerous delivery options to the system and create a route with thousands of points in a matter of minutes. This reduces time and costs for logistics management. AI technologies can free many businesses from manual data reconciliation. Automation will not only save specialists’ time, but will also help avoid mistakes, which are essential for processing a large amount of information. AI-based video analytics reduces the level of injuries in enterprises. It is possible to ensure control of hazardous areas in workshops and round-the-clock checking of personal protective equipment.
Artificial intelligence is becoming an increasingly important and integral tool in the modern economy. It is a collection of technologies that enable computers to imitate human intelligence and make informed and intelligent decisions.
Artificial intelligence is actively used by companies and organizations in economic activities. The possibilities of AI in the economy are vast and diverse. It is capable of analyzing huge

amounts of data, finding hidden dependencies and trends, predicting future events and optimizing business processes.

One of the main areas where AI is used in the economy is process automation. It can be used to automate routine tasks, saving time and resources. Artificial intelligence is also capable of making decisions based on input data and creating algorithms to optimize production processes and manage resources.

Artificial intelligence has the potential to significantly impact the economic system, change its structure and lead to radical changes in various industries.

Another area where AI is finding application is in data analytics. Artificial intelligence is capable of processing huge amounts of information, identifying patterns and assisting in making strategic decisions. It can predict the rise or fall in demand for goods and services, and optimize advertising campaigns and marketing strategies.

Artificial intelligence is also used in the financial sector. Its capabilities allow you to improve risk systems, control and predict market movements, analyze and optimize investment portfolios.

Artificial intelligence in economics has great prospects for development and application. It can improve the efficiency of business processes, reduce costs and risks, and create new opportunities for the development of economic sectors.

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