

## INNOVATIVE EDUCATION IN THE DIGITAL ECONOMY (EXPERIENCE OF FOREIGN COUNTRIES)

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### **Annotation:**

The article highlights the relevance of the educational process, its role in society, the advantages of using innovative technologies, the shortcomings of the educational process. At the same time, in the field of education in our country, the advantages of the introduction of digital innovative technologies and a number of effective ways to nurture a young generation capable of comprehensive, talented, enterprising, tireless in pursuing ideas and projects.

**Key words:** Innovation, innovative technology, digital economy, distance learning, artificial intelligence, Khan academy, Knewton, PISA, PIRLS, MOOC.

**Аннотация:** В статье подчеркивается актуальность образовательного процесса, его роль в обществе, преимущества использования инновационных технологий, недостатки образовательного процесса. В то же время в сфере образования в нашей стране преимущества внедрения цифровых инновационных технологий и ряд эффективных способов воспитания молодого поколения способных, разносторонних, талантливых, инициативных, неутомимых в реализации идей и проектов.

**Ключевые слова:** Инновации, инновационные технологии, цифровая экономика, дистанционное обучение, искусственный интеллект, Академия Хана, Knewton, PISA, PIRLS, MOOC.

The world is changing before our eyes. Digital technologies are gradually becoming an integral part of every area of daily life. It has been difficult to imagine the past years with the help of electronics, computers, networks and many other important automated technologies in all areas. The term "digital economy" is used a lot today. Indeed, in many developed countries, the digital economy has had a significant impact on their development. The digital economy plays an important role in the life of society, in communication in education, from purchasing to manufacturing, and all parts of the economy have changed to the digital environment.

The experience of society over the centuries proves once again that education is one of the main tools for the development of the country, educating the younger generation, which determines the future of the state and society.

Education is an integral part of the world in which we live and provides material well-being through the direct satisfaction of human spiritual needs. In particular, in developed countries, much attention is paid to educating the younger generation. Because their investment in the entire education system will bring 15-17 times more benefits to society in the future. In our case, the figure is 4 times. The United States spends 7.5% of its GDP on education, Norway 7.6%, and China 4%. Also, developed countries, which consider knowledge and human resources as a key factor in economic development, are mainly countries without rich natural resources (Japan, Sweden, etc.). The United Nations Development Program (UNDP) estimates that 16% of the world's total capital accumulated to date is tangible capital, 20% is natural resources, and the remaining 64% is human capital.

In the process of education, a person forms and develops his knowledge, develops his mental and creative abilities, and education is the first priority for a person to become a strong, strong-willed professional. However, today, with the development of science and technology, innovative techniques and technologies, such as computers, tablets, electronic boards, electronic textbooks, interactive textbooks, interactive teaching (cluster, case study, Venn diagram, etc.) without the introduction of methods in education, it is impossible to form competitive personnel with high intellectual potential, creativity, a place in the world labor market.

Many measures are being taken in our country to modernize the education system, promote innovations in the field of education, digital technologies, provide students with quality teaching materials, increase the knowledge of young people. In particular, the parameters of admission to higher education in 2020 increased by 2.5 times compared to 2016, the coverage of young people with higher education increased from 9% to 25%.

Innovation is the introduction and practical use of new technical, technological means, new methods, forms, types of management in all spheres and spheres of our life. Innovative technology in education is a new approach to forms, methods and techniques of education, the use of new software and hardware in education.

The use of digital innovative technologies in education has an impact on the effectiveness of new pedagogical technologies managed by the teacher. For example, when considering online learning, the implementation of teaching without separation from work and daily activities is based on artificial intelligence - a massive open distance education system (massive open distance education system). These systems can perform lectures on the Internet through artificial intelligence, the advantages of which can be expressed in the following:

- Less time consuming, reduces costs.
- Facilitates in-depth study of sciences. Because it is impossible to move forward without studying the subject.

• Modern and quality education will be available anywhere in the world, even for those living in the most remote villages.

The disadvantage of this system is that the student must be equipped with IT - information technology, ie the Internet, computer (tablet, gadget, phone, etc.).

Another such software-based system is the Khan Academy. In this system, students have the opportunity to listen to lectures at home, on the street and in similar places, and perform their duties together with the teacher when they come to the auditorium. By using this system in the learning process, the teacher can determine which topics the student has mastered or which ones he / she has not mastered, which topics he / she is having difficulty mastering, and allows the student to solve problems related to the topic quickly. The student can master the topics in a timely manner.

The Knewton educational system, in developing a special curriculum for each student, takes into account the gaps and shallows of the student's knowledge, which method of teaching (text, video, audio) is more effective. approach. It also includes the extent to which the student has mastered a given topic and whether or not to move on to a new topic. An approach that takes into account the individual characteristics of young people, their shortcomings, is a guarantee that they will master the knowledge provided.

Learning through another innovative digital technology video game. Applying it in the educational process allows learners to better acquire existing knowledge and skills by entering the virtual world than other types of media. If we look at ordinary history books, we can learn about events that happened in the past. However, large-scale and well-organized game simulators allow you to identify and understand more and more important information.

In 2015, more than 500,000 15-year-old boys and girls from 72 countries participated in the PISA survey, and in 2018, more than 600,000 15-year-old boys and girls from 79 countries participated in the PISA survey. A distinctive feature of PISA is that it assesses literacy in a variety of areas, rather than pure knowledge. Literacy is defined as “the ability of students to apply knowledge and skills on key topics, to analyze, reason and communicate effectively in identifying, interpreting and solving problems in a variety of situations”. The PISA program assesses students' literacy in mathematics, science, and reading in cycles that are repeated every three years.

The PISA program has been a regular participant in Finland since its inception in 2000, and the system that has been completed has attracted the attention of countries around the world. With little fluctuation in the results of the seven PISA cycles conducted and a slight decline in the last two cycles, the Finnish education system is associated with one of the countries with the best results in the long run according to PISA research.

The Republic of Finland participated in the PIRLS (The Progress in International Reading Literacy Study) study in 2011 (568 points) and 2016 (566 points) in the 4th grade reading and lifestyle assessment of primary school students and received 3rd and 5th place, respectively. 'occupied the birds. By analyzing the development of education in Finland, many conclusions and recommendations can be made. Some of them are cures:

- Finland's success cannot be explained by a single factor because there is a network of interrelated factors.
- The core values of the Finnish people are an important part of success in education in Finland. Equality and cooperation force the Finnish education system to work together.
- Teacher potential is the most important factor, which is related to many other factors such as the quality of teacher training, the reputation of the teaching profession in society and the working conditions of teachers.

In conclusion, we can say that the main content of the analysis of modern achievements in the education system of many developed and developing countries, the application of scientific achievements in our country, the use of innovative technologies in education is to enrich the quality of education. High results can be achieved by students fully mastering new knowledge and skills and working independently. As a result, free and open-minded, creative, innovators will emerge, which is our highest goal.