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Intelligent crisis management of sustainable education

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Abstract. *In the modern world, marked by global instability and crises, traditional management approaches in education are no longer sufficiently effective. In response to these challenges, there is a growing need to introduce intelligent anti-crisis management based on the use of knowledge, data, and modern information technologies. This approach involves the application of analytics, big data, artificial intelligence, and hybrid information platforms to support decision-making at all levels.*

Keywords: *sustainable education, educational management, crisis management.*

Introduction.

In the era of global turbulence and multimodal uncertainty, institutions and organizations are faced with growing challenges [1-4]. Classical management approaches in such conditions become ineffective [5-7]. Therefore, there is an urgent need to apply advanced and intelligent approaches to management [8], which involve the use of modern information technologies [9].

Innovative intelligent management focuses on the search, processing and productive application of knowledge [10], analytical tools and relevant information

systems [11]. This allows you to effectively predict risks, assess opportunities and form strategic decisions [12-14]. Of particular importance is the use of classical and neural network [15] machine learning algorithms and artificial intelligence systems [16] to analyze large data sets and support management decisions.

In response to multifaceted crises, in particular those affecting the modern education system, intelligent management performs several key functions:

1). Forecasting and risk reduction: The use of analytics, big data and artificial intelligence allows you to identify potential crisis situations in advance, assess their consequences and develop strategies to minimize the negative impact.

2). Flexibility and adaptability: Intelligent management systems contribute to the creation of adaptive curricula, hybrid learning formats and the operational restructuring of organizational processes in new conditions.

3). Reasoned decision-making: The use of integrated digital and intelligent systems provides managers with analytical support that increases the accuracy and balance of management decisions.

4). Creating an innovative culture: The implementation of management based on knowledge and data encourages the development of strategic thinking, collective responsibility and the ability of teams to interact effectively in crisis situations.

The Main Part.

In today's world, characterized by global changes and turbulence, traditional approaches to management are becoming ineffective. In response to these challenges, intelligent anti-crisis management emerges as a key tool for ensuring the stability of educational systems. It is based on the use of the latest technologies, analytical methods and strategies that allow organizations to quickly adapt to changing circumstances.

This approach focuses on the effective use of knowledge, analytical tools and relevant information systems. This helps to objectively assess the situation, predict risks and make informed decisions. In an era of instability and crises, intelligent management includes:

1). The use of analytics, big data and artificial intelligence systems to support decisions at all levels.

2). Integration of digital and hybrid information systems, as well as the application of machine learning methods.

3). Process automation and analytical support for managers, which increases the accuracy and efficiency of decisions.

Ensuring sustainable development of education ensures robust, stable, sustainable development of education in the following ways:

1). Risk prediction and adaptation: The use of analytics and artificial intelligence allows educational institutions to anticipate crises and develop strategies to minimize their consequences. This contributes to the creation of flexible curricula and operational reorganization of processes.

2). Improving efficiency and quality: Intelligent management is an important tool for increasing the efficiency of educational systems, as it ensures informed decision-making and reduces the negative impact of crisis phenomena. This helps to maintain high quality of education even in difficult conditions.

3). Developing an innovative culture: The introduction of management based on knowledge and data stimulates the development of strategic thinking and collective responsibility. This strengthens the stability and competitiveness of educational institutions.

Conclusions.

Intelligent management in education, based on data and knowledge, is a crucial tool for increasing the effectiveness of education systems in the face of multiple crises. It guarantees the stability and competitiveness of educational institutions through a combination of the latest technologies, process automation and analytical support for decisions. The combination of digital platforms, analytical systems and artificial intelligence generates a synergistic effect that increases the accuracy and effectiveness of management decisions. Thus, this approach creates the conditions for the development of education systems that can function effectively even in conditions of high uncertainty

Discussion.

In the context of global instability and constant challenges, traditional management systems in the educational sphere are not effective enough. To ensure the sustainability and efficiency of educational institutions, it is necessary to implement intelligent anti-crisis management based on modern hybrid information technologies. These technologies are a key tool that allows combining various digital solutions to achieve common goals and sustainable development of education. Hybrid information systems are a complex combination of various platforms, tools and methodologies that work as a single ecosystem [17, 18]. Thus, hybrid information technologies are not only an important but also a decisive tool for achieving sustainable development of educational systems. They ensure the sustainability, competitiveness and efficiency of educational institutions, helping them to function successfully even in conditions of high uncertainty.

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Cutting-edge intelligent management of academic R&D in the contemporary era of volatility and challenges

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Abstract. *Higher education and academic research face growing uncertainty and crises that expose the limits of traditional R&D governance. To address these challenges, advanced intelligent management integrates knowledge-based approaches with data-driven strategies, artificial intelligence, and big data analytics. Such hybrid models enhance adaptability, improve forecasting, optimize resources, and strengthen resilience, enabling institutions not only to withstand crises but also to seize opportunities for growth and innovation. Modernizing R&D governance is therefore essential for building sustainable and competitive academic ecosystems in times of instability.*

Keywords: *intelligent management, academic science, crisis, research and development.*