

## **Products of Innovative Thinking and Stages of Their Implementation**

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**Abstract.** *This article examines the products of innovative thinking and their modern manifestations. It talks about the steps that need to be followed to implement innovative thinking.*

**Keywords:** *Innovation, intelligence, artificial intelligence, modern technologies, potential, index, global, strategy, innovator, thinking, intellectual, human capital, robot, iron man, automatic, cooperation, prototype, risk.*

Innovative thinking represents a system of creative thinking methods and experiences used in creating innovations, studying them and implementing them. This requires collaboration in solving problems, finding new ways and applying innovations. In innovative thinking, people support new, different ways of solving problems, creating products or services, or providing services.

In order to implement innovative thinking, it is necessary to implement the following steps:

1. **Problem Solving:** Identify problems and create motivation to solve them. At this stage, the proposed problem or compelling question must be relevant.
2. **Gather information:** Gather the necessary information for reflection. This includes learning about important industry news, technologies and innovations.
3. **Experience Evaluation and Learning:** Analyze prior compliance and unique experiences. Using experiences in learning and applying news.
4. **Community and collaboration:** Community and collaboration are important in innovative thinking. It is possible to exchange ideas with other people, hear and find new approaches.
5. **Creating prototypes:** Creating prototypes to implement ideas and testing them.
6. **Acceptance and management of risks:** It is necessary to accept and manage risks in innovation processes. It is necessary to consider the economic, social or technological risks associated with the use of changes and innovations.
7. **External research and information sharing:** Monitoring, learning and global news helps to think and innovate.

These steps are key steps to help you implement innovative thinking.

Any person who begins to know his mind tries to learn and think. With this mind, thinking and worldview, he stands out among created beings. In the early times, man was afraid of natural phenomena, his views on the creation of the universe and the creation of various myths, all these were the ideas of people typical for that time. The products of thought that they invented consisted of the most simple-looking, underdeveloped techniques that could be used in everyday life, needed in hunting processes. But later the needs increased. The struggle for survival, the development of time, perhaps the natural phenomena themselves, the increasing competition forced people to think more.

In this way, everything went to the stage of development and began to take on a new color. Today, we cannot imagine the development of countries without computers. Their importance in the development of science is great. Computers also went through several stages until they came to their present appearance. For example, the first computers weighed 30 tons and were 30 meters long. The above mentioned, in general, all techniques, technologies and other innovations invented today are products of innovative thinking.

The introduction of the concept of innovative thinking into science is related to the 19th century, and in the 20th and 21st centuries, it is gaining a new life and is beginning to be widely used, but its roots go back to much earlier times. simple and simple inventions created for So, innovations have been in demand since ancient times. Only the creation of this term is related to the new era.

"The new generation living now has a free, independent, creative and critical thinking. They are far from social fear, political and socially active than the generation that lived during the colonial period. They are inquisitive, resourceful and well-educated, who embrace all forms of caregiving" [1]. Therefore, we have more opportunities than our ancestors who lived before us.

If we look at history, in February 1600, in Rome, the center of the entire Christian world, Giordano Bruno, who was the defender and propagator of Nicolaus Copernicus' teachings, was burned to ashes [2]. This was due to the fact that he freely expressed his thoughts and ideas and developed the heliocentric theory of Copernicus.

Today, the ideas that are the product of thinking are being enriched and supported. The largest amount of human capital is spent on training creative and creative thinking personnel. The countries that invested the most capital are the USA and South Korea, which pay off 13-17 times in a few years and are in the first place among the developed countries. In countries such as Russia and China, classes are held today based on innovative thinking.

A number of works are being carried out in this regard in Uzbekistan. The first principle of the "Uzbekistan-2030 strategy" is defined as "creating suitable conditions for every person to realize his potential", and in this direction, a number of activities in the field of innovation have been defined. In particular, it is determined that Uzbekistan will enter the list of Top-50 countries in the global innovation index in the coming years. The Decree of the President of the Republic of Uzbekistan "On the innovative development strategy of Uzbekistan in 2022-2026" was signed. Acceleration of innovative development of our country, implementation of technologies, development of human capital and innovation spheres are defined as priorities in this decree. It is enough to have attention and desire to create and develop innovative products.

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Today, in the era of rapid global development, there are many advanced technical devices, artificial intelligence, and robots around us. Now, when we think of "Robot", we think of a human-looking technical device that performs all human tasks, in a word, "Iron Man". This is actually the most advanced form of the robot. In fact, we can cite technical devices Google, Google translator, various translation dictionaries, YouTube, Amazon, Netflix, and self-driving cars, such as Tesla, as examples of such artificial minds. We can list them one more time. Only they perform certain services. That is, it will make our work much easier.

Today we all come across the term "Artificial Intelligence" a lot. Artificial intelligence is the

consciousness displayed by machines, as opposed to the natural consciousness displayed by humans or animals. Artificial intelligence was first founded in 1956. But in 2012, there was more funding and big increases. Today, these tools do not leave any work for people. There are even intelligences that describe a person's appearance when you describe him and automatically translate words into other languages. Even in 1997, an IBM computer named Deep Blue won over the world chess champion Garry Kasparov.

The conclusion is that our future life directly depends on innovations, without them the issue of ensuring development, increasing the competitiveness of the country and the well-being of the population will become more complicated. It is emphasized that in order to achieve innovative economy, it is necessary to bring innovators to maturity and for this to develop human thinking.

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