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SMART FOOD

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In our modern world, people try to think of many ways to make their lives easier. The appearance of the first devices similar to 3D printers dates back to the early 1980s, when Dr. Hideo Kodama in Japan developed a rapid prototyping system using photopolymers. The principle of operation of the devices was the same as in modern 3D printers - the printed object was created in layers in accordance with the model. Such a printer can print whatever you want. With the help of 3D printing technology, parts for various mechanisms, bridges and even entire houses are being created. And as it turned out, the 3-D printer can even print food [2].

South Korean scientists from the Elwha Women's University have developed a 3D printer that turns powdered ingredients into complete foods with a given nutrient content and predetermined taste properties. Essential nutrients (for example, carbohydrates and proteins) are ground to powder at -100 ° C. Then the resulting raw material is heated and turns into a porous film. After that, a three-dimensional product is created from several layers of films. The uniqueness of the development lies in the fact that, by combining films with different content of proteins, carbohydrates, microelements and vitamins, you can get a product rich in nutrients in the required proportion. In addition, you can experiment with the taste palette of the product, combining, for example, powdered pear and apple. "We believe that one day anyone will be able to purchase cartridges containing powdered analogs of various ingredients that can be" assembled "together using three-dimensional printing and prepare a" dish "in accordance with individual needs and preferences," said the author University Elwha Jin-Kym Lee [1].

The new technology, according to the developers, can greatly reduce the financial costs of transportation and storage of products, as well as reduce the amount of food waste. According to scientists, their development will be able to satisfy the desires of a growing population on earth. According to the Food and Agriculture Organization of the United Nations, by 2050, the world's population will increase from the current 7.6 billion people to 9.8 billion, and in 2100 it will reach 11.2 billion [2].

One of these printers operates in Food Ink, a 3D kitchen restaurant that was opened in London in 2016. In this institution, everything - from food to furniture and cutlery - was created on a 3D printer. The restaurant offers visitors a menu of nine dishes. The three-dimensional printer used here operates on the principle of ordinary; the role of ink is played by the paste of edible ingredients, such as curd cheese or chocolate mousse.

According to nutritionists researching, the development of Korean scientists will help people stick to a balanced diet. But in complex developments a certain amount of nutrients is provided, a person will not be able to eat so long. This 3D food can be balanced and useful, but can quickly get bored. It is impossible to engage in self-treatment with such a printer, it is better to go to a nutritionist so that he compiles you the correct diet.

On the one hand, this development is very useful, as it will make life easier for many people, you will not have to spend time preparing any product or drink, but will the printed products be as useful as the real ones? Many people simply do not understand this development, as they are used to

cooking and growing vegetables and fruits themselves, they simply do not recognize it. I am not for or against this idea, but I think that not everything can be printed on such a printer. Perhaps this invention will save many countries from starvation, but for that it should have an affordable price so that not only wealthy people, but also others can get it. 3D printers print a lot of useful things, but everything on the world is impossible to print, and I do not think there will be a great need for this.

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INFLUENCE OF CRYPTOCURRENCY MARKET ON THE INFORMATION TECHNOLOGY DEVELOPMENT

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Nowadays, the development of information technology has affected almost every sphere of our life. The rapid development of the modern technology and IT-solutions make their demands in the labor market. There are many banks on the Internet, digital wallets and digital currencies, which are associated with the development of information technology. One of the mentioned above items is cryptocurrency. It is both demanded and the most discussed currency today.

The purpose of this study is to investigate cryptocurrency potential with relation to its impact on information technology advance.

Cryptocurrency is a form of digital money that is designed to be secure and, in many cases, anonymous. It is a currency associated with the internet that uses cryptography, the process of converting legible information into an almost uncrackable code to track purchases and transfers [1]. With the development of a new direction in programming, the list of professions in this field has expanded. So, because of the cryptocurrency, 18 new IT specialties appeared. Some of the most innovative are: Cryptocurrency Analyst, Cryptocurrency Developer, Cryptocurrency Mining Technician, Cloud Engineer with Bitcoin protocol and so forth. The last year only the demand level for a blockchain specialist skills and experience has grown by 40%. Nowadays, a blockchain specialist is a person with a unique combination of technical knowledge, programming skills and knowledge of the 'finance basics'.

Over the past month, not only the price of bitcoin has grown rapidly, but also the global cryptocurrency market as a whole (Figure 1) [2]. Consequently, as prices rise, so does the demand for professionals and the creation of special farms.