

DIGITAL TECHNOLOGIES AS NEW SUPPORTS FOR THE ECONOMY

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Annotation: This article focuses on the rapidly evolving digital industry and the cryptocurrency market, which are currently experiencing a number of ups and downs. It provides information on issues related to cryptography and cryptanalysis, which are the basis of the digital currency market, the mechanism of transition from cryptography to cryptocurrencies, hashing functions, which are an important element of cryptography.

Keywords: Digital economy, cryptographic codes, competitiveness, restructuring-zation, bitcoin, lightcoin, ethereum, innovation activity.

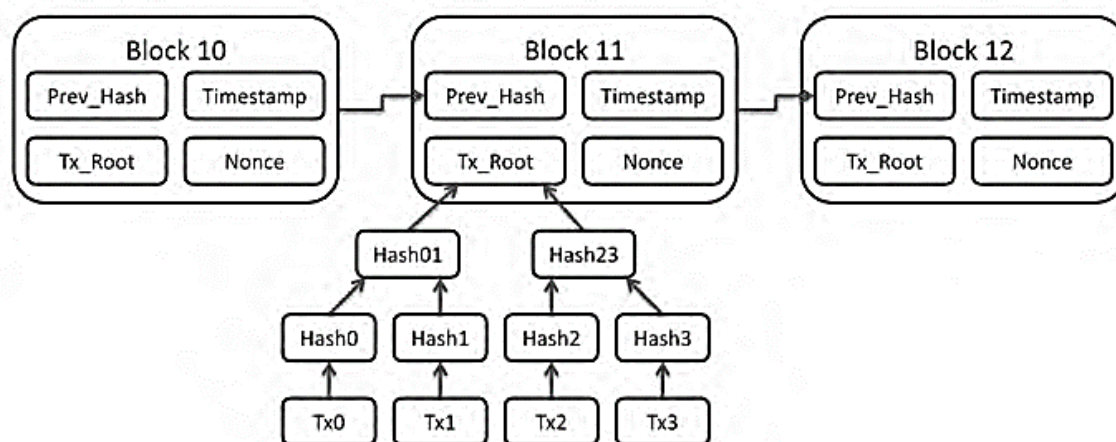
Introduction

Each participant is expected to perform a transaction using a public key and a secret key. Public key transactions are recorded by all participants in the overall system. Funds received through a secret key will be confirmed. Computers and high-speed Internet with modern high-performance parameters (video card processing speed and processor clock frequency are very high) to perform these transactions and keep each other in general in a processed state connection is required¹.

The process of working with digital technology is in some ways similar to the exchange of files between participants in a pre-existing torrent system. Only in this system, instead of files, special cryptographic codes are hashed into blocks. The structure of these blocks in the correct sequence over time creates blockchain technology, such as:

Fig 1.

Blockchain technology



¹ Rustamov, D. (2019). STAGES OF BUDGET SYSTEM AND BUDGET RELATIONS IN THE REPUBLIC OF UZBEKISTAN. Студенческий вестник, (36-2), 73-75.

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The above is information about the features of payments made through cryptocurrencies. Now let's talk about why their value (bitcoin, lightcoin, etherium, etc.) has been growing rapidly in recent times. In fact, the cost of creating cryptocurrency coins is small, but just as the price of bitcoin has risen due to the proliferation of mining companies or the scarcity of these resources, the production of bitcoin through mining has become increasingly difficult. The fact that only a few bitcoins are generated as a result of the operation and the maximum number of bitcoins is limited (21 million) are causing the price to rise².

But there are other reasons for the rise. One of the main reasons is that developed countries such as China, Japan and South Korea are officially adopting bitcoin as a means of payment, which has greatly increased the demand for bitcoin coins, the price of which increased from \$ 998 to almost \$ 20,000 in 2017 alone (850 percent).

That is why the world's leading stock exchanges and major banks are trading bitcoin in the trading system. Although the rapid development of the cryptocurrency market may have led to the collapse of the existing system, which will have a significant impact on the global financial and economic system, at the same time, investors who want to see big profits will benefit from the development of the bitcoin market. are interested.

Also, the people most interested in the rapid development of the cryptocurrency market are investors operating in the shadow economy. As a result of these and similar factors, many developed countries are now in no hurry to adopt cryptocurrencies (including bitcoin) as a means of payment in order to prevent the development of various illegal and criminal activities through bitcoin. As for the purchase of Bitcoin, it is currently available from several specialized exchanges and bitcoin owners[4].

There are several ways to buy directly from (participants). In this trade, the current value of bitcoin is determined by mutual agreement between the participants. If the trade is made through exchanges, then payments can be made through international VISA, Master Card cards, as well as through Webmoney, Qiwi, Perfect Money, Advcash, Payeer, Paypal and other types of electronic wallets.

If you bought bitcoin for \$ 100 at the rate of 0.003 in 2010, its value today would exceed \$ 153 million. However, bitcoin is not the only cryptocurrency, there are currently several other types of cryptocurrencies in addition. Here is some information about them³.

Main part

A cryptocurrency called Litecoin (Lightcoin) is one of the most popular types of cryptocurrencies in the world. Litecoin's custom site is often referred to as a "digital currency." Although Litecoin is considered by its creators to be an evolution of Bitcoin, the main digital currency, it is quite different. As of December 11, 2013, 1 LTC on the BTC-E exchange was valued at approximately \$ 33. Lightcoins can be exchanged for bitcoin or ordinary money at exchange offices. Cryptocurrencies can also be used to buy a variety of goods and services (unless sellers agree). Litecoin is very similar to Bitcoin in several respects. These include⁴:

² <https://centricdigital.com/blog/digital-transformation/why-digital-transformation-should-be-a-strategic-priority-in-2017-2/>

³ Jamshido'g'li, R. D., RakhmonjonZokirjono'g'li, O., & Kholdorovna, R. F. (2020). Changes in market relations in the period of market economy and their classification. *South Asian Journal of Marketing & Management Research*, 10(4), 120-129.

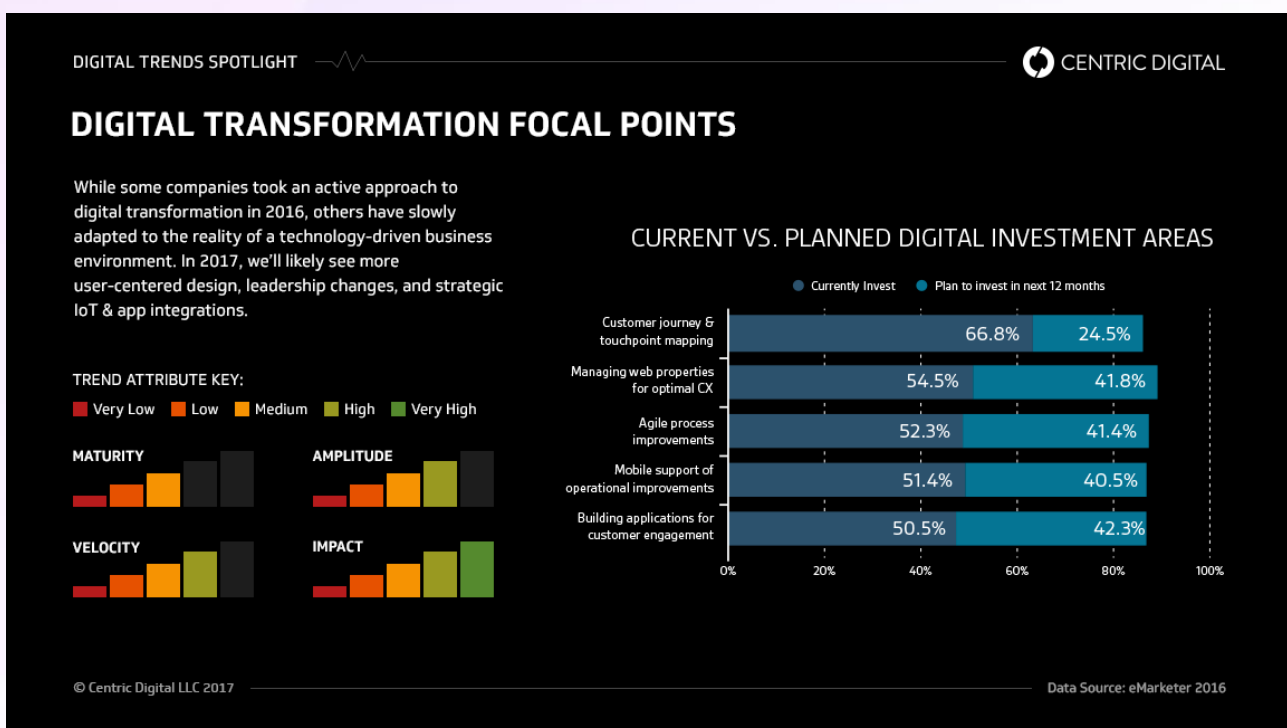
⁴ Rustamov, D. J. (2020). THE ROLE OF EXPORT POTENTIAL IN ATTRACTING FOREIGN INVESTMENT. *Экономика и социум*, (3), 103-104.

- ✚ May is the main means of earning money;
- ✚ Decentralization and fragmentation of the network;
- ✚ Lack of external control;
- ✚ Algorithmically limited emission;
- ✚ Anonymity of possession and use of funds (including transactions);
- ✚ Impossibility to reject transactions;
- ✚ Storing funds in a wallet file that is part of the network.

Like Bitcoin, Litecoin is written in C++ and stored in Windows, Mac OS X, Linux versions for the client.

Fig 2.

Digital Transformation: Financial Services Government Healthcare Retail & Apparel



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The value of e-currencies will also increase in most cases - everyone hopes to earn a living by raising the exchange rate, of course. Where can I get e-money, since it has its own advantages?

They usually use internet money-changers, special bots on messengers, internet wallets and cryptocurrency exchanges. Due to the ease of use of e-money and the growing exchange rate, the demand for their purchase is growing. People can buy e-money, for example, from close friends, experts in the field, entrepreneurs or close acquaintances. Some money changers in the Yandex system offer to buy bitcoins for \$ 13,000, despite the fact that the market price of bitcoins is in the range of \$ 12,300-12,400. Nowadays, most cryptocurrency exchanges charge up to 5% for transfers from Kiwi and Yandex wallets⁵.

⁵ Abdurakhmanova, G., Shayusupova, N., Irmatova, A., & Rustamov, D. (2020). The role of the digital economy in the development of the human capital market. Архив научных исследований, (25).

Conclusions and suggestions

Nowadays, only those who emit digital technologies in a certain way (mine, forging) can have them. The rest can only get virtual money from others. They may pay a certain amount of money or exchange it for a good or service. The exchange can be done without any intermediaries. In practice, however, this can only be done in private places. This naturally created the cryptocurrency market. As a result, owners of cryptocurrencies now have the opportunity to exchange them not only for real money, but also for other types of virtual money.

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