The article considers the concept of cryptocurrency, its history, features, pros and cons, ways of distribution of cryptocurrency in the world and in Ukraine. The problematic issues of making virtual currencies are considered, in particular, why this issue is relevant today. Cryptocurrency is an opportunity to look at economic issues from a new angle. Its emergence is due to the needs of the time. Undoubtedly, this is an actual technical achievement. Opportunities and popularity are currently growing at a rapid pace. It is similar in characteristics to ordinary money but has a number of features that are becoming increasingly popular today. There are many ways to earn cryptocurrency and make a profit from it. Cryptocurrency is a new word in money circulation. We can assume that cryptocurrency may soon become an alternative to traditional means of payment.

Key words: cryptocurrency, bitcoin, coin, blockchain, mining, darknet, virtual currencies, electronic money.

JEL classification: F01, F31, F39, G32, G35

The article considers the concept of cryptocurrency, its history, features, pros and cons, ways of distribution of cryptocurrency in the world and in Ukraine. The problematic issues of making virtual currencies are considered, in particular, why this issue is relevant today. Cryptocurrency is an opportunity to look at economic issues from a new angle. Its emergence is due to the needs of the time. Undoubtedly, this is an actual technical achievement. Opportunities and popularity are currently growing at a rapid pace. It is similar in characteristics to ordinary money but has a number of features that are becoming increasingly popular today. There are many ways to earn cryptocurrency and make a profit from it. Cryptocurrency is a new word in money circulation. We can assume that cryptocurrency may soon become an alternative to traditional means of payment.

Key words: cryptocurrency, bitcoin, coin, blockchain, mining, darknet, virtual currencies, electronic money.

JEL classification: F01, F31, F39, G32, G35
The unit of measurement in this system is a “Coin”. Cryptocurrency has no real expression like metal coins or paper banknotes. This money exists exclusively in digital form. The turnover of such currency takes place according to the “blockchain” system. This system is a database distributed over millions of personal computers around the world. It is not hosted on a single server or hard drive, but divided into nodes. It is supported by active network members – regular wallet users. Thus storage and record of the information at the address of cryptocurrencies occurs on all devices at once that guarantees transparency and openness of transactions. It is a way for a group of people to build relationships on their own, rather than trusting others to manage their money.

Ways to earn cryptocurrency:

- Cranes – services for the distribution of Bitcoin and other coins for small tasks: solving captchas, web surfing and so on.
- Bounty – the process of advertising new ICO-projects through posting, reposting, translation. Initially, you receive free tokens, which will soon become a full-fledged cryptocurrency.
- Posting / copywriting – participants of Steemit and Golos services receive a reward in the form of internal cryptocurrency. In the future, it can be exchanged [3].

In order to earn cryptocurrencies, you only need to choose the way you like and make every effort to develop in this area.

Each of the existing types of cryptocurrencies has both advantages and disadvantages inherent in them all together.

Advantages of cryptocurrencies:

- Anonymity of transactions – there is no information about the owner of the crypto wallet (there is only a wallet number);
- The open source algorithm allows anyone to get it;
- Decentralized nature, lack of a single digital bank, lack of control over transactions and payments;
- Not prone to inflation (limited number of coins);
- Security, it cannot be copied.

Disadvantages of cryptocurrency:

- Negative actions against it are possible on the part of national regulators
- High price variability due to the specifics of use
- Loss of the password to the electronic crypto wallet or its inoperability lead to complete and irreversible loss of all coins

In general, cryptocurrencies are characterized by the same features as modern money, namely:

- cryptocurrencies are universal;
- it is an exchange medium;
- cryptocurrencies can be accumulated;
- cryptocurrencies perform a calculation function.

In Ukraine, due to greater interest in the capabilities of this system, there are already stores where you can pay with bitcoins. Similarly, in almost all terminals you can top up your Bitcoin account. Unfortunately, the cryptocurrency bitcoin does not currently have a specific legal status in Ukraine.

At the same time, according to public data from the declarations of public figures, it can be seen that they already use cryptocurrency as an investment asset.

Consider the exchange rate of bitcoin to the hryvnia in the period from November 2017 to January 2021:

Observing the trend of growth and decline of bitcoin in the period from 2017 to 2021, we can conclude whether to use video cards and a computer’s CPU to extract currency.

At the beginning of the emergence of bitcoins, the complexity of cryptocurrency mining was minimal, which allowed to establish the mining process using the computer’s CPU. Bitcoins could be mined without much effort, the rate of which until 2015 did not exceed 500 UAH per 1 BTC. Already in 2019, the cryptocurrency rate went up,
the popularity of virtual coins increased, and the complexity of mining jumped. Extracting bitcoins using the computer's CPU has become a futile task. Along with processors, participants in the crypto network used GPUs (video cards), which were better suited for mining cryptocurrencies. Video card – a graphics processor capable of performing many identical tasks. Since 2016, video cards have ceased to bring the expected profit, due to the sharp rise in the price of Bitcoin, the growing popularity of cryptocurrencies and, consequently, the increasing complexity of mining. Miners began to assemble farms, i.e. special complexes, which included from 4 or more video cards. In December 2017, when the cryptocurrency exchange rate exceeded the 20,000 mark, the relevance of using farms on the GPU was minimized. Buying expensive equipment and spending time extracting BTC virtual currency with GPU farms is futile, but by early 2021, the cryptocurrency rate has skyrocketed, and the situation in this market will change in the near future.

At the same time, the cryptocurrency market has a dark side, their popularization is not accidental. It is anonymity that has two sides. On the one hand, it is an opportunity not to pay taxes. On the other hand, this is the main method of payment in the darknet. Clarinet is the Internet that everyone uses every day. Darknet is the Internet, which can be accessed only through a special browser. This is the human trafficking, trade in passports, criminal services.

Information is an expensive commodity in the 21st century. Information exchange, where lots are documents of state importance, correspondence, compromising materials, databases, all this can be bought for bitcoins.

The motto of darknet forums is “the one who owns information owns the world.” Darknet forums bring together people of different interests, from lawyers, doctors, engineers to criminals. Everyone shares experiences, and everything remains anonymous, they offer many services for bitcoin.

Conclusions. Cryptocurrency is an opportunity to look at economic issues from a new angle. Its emergence is due to the needs of the time. Undoubtedly, this is an actual technical achievement. Opportunities and popularity are currently growing at a rapid pace. It is similar in characteristics to ordinary money, but it has a number of features that are becoming increasingly popular today. Therefore, there are many ways to earn cryptocurrencies and make a profit from them. The main advantages of this type of currency are the lack of control and restrictions on issuance, the ability to generate currency independently through mining, complete anonymity, protection from inflation. However, despite all the advantages, this type is one of the most common types of payment in the criminal world.

On the positive side, in some European cities, local authorities have begun accepting some of the utility bills and taxes in bitcoins. And now you can pay for the services of a dentist, shopping in the store and much more for bitcoins.

Thus, cryptocurrency is a new word in money circulation. Based on this, we can assume that cryptocurrency may soon become an alternative to traditional means of payment.

References:
3. What is a cryptocurrency? Available at: https://prostocoin.com/blog/what-is-cryptocurrency (accessed 13 December 2020).

Список використаних джерел:
У статті розглядається поняття, що таке криптовалюта, її історія, особливості, позитивні та негативні сторони. Розповсюдження криптовалют в світі та в Україні. Розглядаються проблемні питання віртуальних валют, і тому це питання актуальне на сьогоднішній день. Криптовалюта – засіб обміну, як і звичайні валюти, але призначена для обміну цифровою інформацією, що стало можливим завдяки певним принципам криптографії (використовується для забезпечення операцій та контролю створення нових монет). Першою криптовалютою була система Вітсін. Криптовалюта потрібна для платежів. Але не просто транзакції, а анонімні, швидкі і прямі транзакції. Здійснюються, як між приватними особами, так і для купівлі товарів або послуг в інтернеті. «Викрасти» криптовалюту з гаманця практично неможливо. Так як всі операції незворотні і використовують приватні ключі, перехопити їх або зламати неможливо. Вітсін і іншу крипту розглядають в якості інвестиційного активу за рахунок коливань курсу і загального зростання популярності. Криптовалюта автоматизує грошові відносини і найголовніше – робить їх прозорими. Одиницею виміру в цій системі є «Коіни» («монети»). Криптовалюта не має ніякого реального висловлювання на кшталт металевих монет або паперових банкнот. Ці гроші існують в цифровому вигляді. Оберти такої валюти відбувається за системою «блок-чейна» («замкнений ланцюг»). Ця система являє собою розподілену базу даних, зберігає і запис інформації. Криптовалюта – можливість поглянути на економічні питання під новим кутом. Її виникнення обумовлено потребами часу. Безумисно, це актуальне технічне досягнення. Можливості та популярність на даний момент зростає на великих швидкостях. Вона по характеристикам схожа на звичайні гроші, але має ряд можливостей, які надають все більшої популярності в наш час.

Ключові слова: криптовалюта, біткоїн, коін, блок-чейн, майнінг, даркнет, віртуальні валюти, електронні гроші.