DOI: https://doi.org/10.18371/fp.4(40).2020.222737

JEL Classification E51, E42

## DIGITAL MONEY MARKET TRANSFORMATION: PROSPECTS OR THREATS TO FINANCIAL STABILITY

## **KHUTORNA** Myroslava

Doctor of Economics, Associate Professor, Professor of Finance and Banking Department Cherkasy Educational and Scientific Institute of Banking University ORCID ID: http://orcid.org/0000-0003-0761-3021 e-mail: lmiroslava7@gmail.com

## **TKACHENKO** Yuliya

Master's Degree Degree of Cherkassy educational-scientific institute of the Banking University ORCID ID: http://orcid.org/0000-0001-9960-2703 e-mail: yuliya.tkachenko99@i.ua

**Abstract.** The article is devoted to the study of current trends in the digitalization of the money market and the associated risks and threats to financial stability. The evolution of money market transformation is revealed. The structure of the money market in the conditions of post-industrial society is outlined. Particular attention is paid to the development of stablecoins and the areas of greatest threats to financial stability have been identified.

**Keywords:** *digital transformation, money, fiat money, electronic money, stablecoins, financial stability, risks, threats.* 

The article is devoted to the study of current trends in the digitalization of the money market and the associated risks and threats to financial stability. The evolution of money market transformation is revealed and it is substantiated that modern digitalization of money from the technical point of view should be considered as a new evolutionary form of electronic money development. However, the fact that in the case of digital currencies we are talking about the decentralization of money, so from an economic point of view - is the institutional transformation of the monetary system in the era of industrial society.

The article outlines the structure of the money market in a post-industrial society by identifying the following criteria: 1) the type of object orientation of relations (on financial requirements; on the object of financial nature); 2) characteristic of the value (preservation of a fixed value; variable value; quantitative measurement of the total volume of units); 3) type of issuer (state or its authorized institution; private institution); 4) technological approach to the organization of money circulation (centralized, decentralized).

Particular attention is paid to stablecoins, which are considered as a technological mechanism for integrating cryptocurrencies and traditional fiat money. At present, these two markets exist as institutionally isolated ecosystems with very little room for interaction. Due to stablecoins and various technological algorithms for their implementation, it is likely that cryptocurrency is subject to a wider range of uses in the payments and lending markets, which are still dominated by fiat money. Stablecoins are also an attempt to eliminate the objectively high volatility of "traditional" cryptocurrencies by pegging the value of a stable coin to one or more other assets, such as sovereign currencies.

One of the substantive areas where the emergence of threats to financial stability is, firstly, the most expected, and secondly, the most significant in terms of potential impact, identified the creation and active development of a mechanism of stablecoins, which in our opinion is very similar to credit derivative, the activity of which is associated with one of the main causes of the global crisis in 2008. The relationship between the development of stablecoins and the probability of liquidity risk at the level of the financial system.

## Reference

1. Pantielieieva, N., Zaporozhets, S., Nagaichuk, N., & Bartosh, O. (2019). Transformation of financial intermediation in the context of spread of digital trends. *Bulletin of National Academy of Sciences of the Republic of Kazakhstan*, Vol. 3, 379, 144-152.

2. Krynytsia, S. (2020). Suchasni trendy rozvytku FinTech ta yikh vzayemodiyi z tradytsiynymy finansovymy poserednykamy [Modern trends in FinTech development and their interaction with traditional financial intermediaries]. *Rozvytok finansovoho rynku v Ukrayini: zahrozy, problemy ta perspektyvy: zb. materialiv II Mizhnarodnoyi naukovo-praktychnoyi konferentsiyi»* [*Financial market development in Ukraine: threats, problems and prospects: coll. materials of the II International scientific-practical conference*]. Poltava: Natsional'nyy universytet «Poltavs'ka politekhnika». [in Ukraina].

3. Pantielieieva, N., Rogova, N., Zaporozhets, S., & Tretiak, N. (2020) Transformation in the ecosystem of financial intermediaries in the context of digitalization. *Scientific bulletin of Polissia*, 1, 49–59. URL: https://doi.org/10.25140/2410-9576-2020-1(20)-49-59.

4. Pantielieieva, N., Krynytsia, S., Khutorna, M., & Potapenko, L. (2018). FinTech, Transformation of Financial Intermediation and Financial Stability. *IEEE* 5th International Scientific-Practical Conference Problems of Infocommunications (October 9-12, 2018, Kharkiv, Ukraine). PIC S&T`2018. Kharkiv : Kharkiv National University of Radio Electronics.

5. Nagaichuk, N.H., & Tretiak, N.M. (2018). Mozhlyvosti vykorystannya tekhnolohiyi blockchain u strakhuvanni [Possibilities of using blockchain technology in insurance]. *Naukovyy visnyk Uzhhorods'koho natsional'noho universytetu. Seriya:* «*Mizhnarodni ekonomichni vidnosyny ta svitove hospodarstvo» - Scientific Bulletin of Uzhhorod National University. Series: "International Economic Relations and the World Economy"*, 19, Part 2, 104-107. [in Ukrainian].

6. Ali, R., Barrdear, J., Clews, R., & Southgate, J. (2014). Innovation in payment technologies and the emergence of digital currencies. *Bank of England Quarterly Bulletin*, 54(3), 262–275. URL: https://www.bankofengland.co.uk/-/ media/boe/files/quarterly-bulletin/2014/innovations-in-payment-technologies-and-the-emergence-of-digitalcurrencies.pdf.

7. Berentsen, A., & Schär, F. (2019). Stablecoins: The quest for a low- volatility cryptocurrency. *The Economics of Fintech and Digital Currencies. Publisher*: CEPR Press, 65-71. URL: https://www.researchgate.net/publication/332464789\_ Stablecoins\_The\_quest\_for\_a\_low-\_volatility\_cryptocurrency.

8. Financial Stability Board. (2020). Addressing the regulatory, supervisory and oversight challenges raised by "global stablecoin" arrangements. Consultative document. URL: https://www.fsb.org/wp-content/uploads/P140420-1.pdf.

9. Adrian, T., & Mancini-Griffoli, T. (2019). The rise of digital money. FinTech notes. Washington, D.C. : International Monetary Fund.

10. Ali, R., Barrdear, J., &Southgate, J. (2014). Innovations in payment technologies and the emergence of digital currencies. *Bank of England Quarterly Bulletin*, 52(3), 262-275.

11. Bank of England. (2014). The economics of digital currencies. URL: https://www.bankofengland.co.uk/-/media/boe/files/digital-currencies/the-economics-of-digital-currencies.

12. Huang, Y., & Chen, X. (2006). Digital currency: demand, impacts and role of central bank. *Journal of Zhejiang University*, 36(6), 74-80.

13. Freedman, C. (2000). Monetary Policy Implementation: Past, Present and Future. *International Finance*, 3(2), 211-227.

14. Fung, B., Molico, M., & Stuber, G. (2014). Electronic Money and Payments: Recent Developments and Issues. Ottawa: Bank of Canada. 15. Yaremenko, O.L. (2012). Krizisnyye faktory i napravleniya sbalansirovaniya khozyaystvennoy sistemy : monografiya [Crisis factors and directions of balancing the economic system: monograph]. *Vzglyad iz Ukrainy. Kn. 2* [*View from Ukraine. Book. 2*] / Eds. Geytsa, V.M., & Gritsenko A.A. Kyiv : Nats. akad. nauk. Ukrainy, Int ekonomiki i prognozirovaniya, Chapter 7, 114-119. [in Russia]