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USE OF DIGITAL FINANCIAL INSTRUMENTS FOR MONEY LAUNDERING PURPOSES: SPECIFICS AND COUNTERACTION

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Abstract. The development of digital technologies has led to significant changes in the way financial transactions are conducted, creating new opportunities for money launderers. The article aims to characterise the consequences of the proliferation of digital financial instruments and assess the risks of their use for money laundering purposes. We have identified the areas of proliferation of digital financial instruments and the challenges that arise for financial market participants and regulators in the context of combating money laundering. The most vulnerable instruments for money laundering are virtual currencies, online payment systems and e-commerce platforms, and several technologies, including mixing services, darknet markets, decentralised exchanges, fictitious companies, P2P transfers, digital wallets, and identity fraud. It is determined that modern money laundering is a combination of financial and cybercrime, fraud and the latest technologies.

Keywords: money laundering, digital technologies, financial markets, cryptocurrency, financial instruments.

The development of digital technologies has led to significant changes in the way financial transactions are conducted, creating new opportunities for money launderers. The digitalisation of financial transactions has ensured their speed and global accessibility. Simultaneously, the widespread use of online banking, mobile payment applications and ecommerce platforms has increased the volume and complexity of digital financial transactions. One of the most critical problems of modern financial markets has become the adaptation of money laundering methods to exploit the vulnerabilities of digital technologies. Because of this, the article aims to characterise the consequences of the proliferation of digital financial instruments and assess the risks of their use for money laundering purposes. We have identified the areas of proliferation of digital financial instruments and the challenges that arise for financial market participants and regulators in the context of combating money laundering. These challenges boil down to the need to consider the unique characteristics of virtual currencies and the infrastructure that supports their circulation when developing antimoney laundering procedures. The authors have attempted to classify digital tools and technologies used in money laundering and demonstrate their interconnections. The most



vulnerable instruments for money laundering are virtual currencies, online payment systems and e-commerce platforms, and several technologies, including mixing services, darknet markets, decentralised exchanges, fictitious companies, P2P transfers, digital wallets, and identity fraud. It is determined that modern money laundering is a combination of financial and cybercrime, fraud and the latest technologies. Because of this, countering this phenomenon is becoming a rather complex task and requires a combination of efforts of all structures involved in the functioning of the financial market and law enforcement agencies at both the national and international levels.

Reference

- 1. Nikkel, B. (2020). Fintech forensics: Criminal investigation and digital evidence in financial technologies. Forensic Science International: Digital Investigation, 33, 200908. Retrieved from: https://doi.org/10.1016/j.fsidi.2020.200908 [in Netherlands].
- 2. Leinwand, D. & DiBattiste, M. (2020). AML in the digital age. In Anti-money Laundering in the Digital Age: Emerging Trends and Technologies, S. K. Dhar (Ed.), Springer. [in Germany].
- 3. McGuire, M. & Dowling, G. (2018). The economics of digital currencies. In Economics of Digitization, M. McGuire and D. S. Reisman (Eds.), Springer. [in Germany].
- 4. Moisseinen, N. & Norell, J. (2021). Bitcoin and money laundering in the digital age. In Bitcoin and Beyond: Cryptocurrencies, Blockchains, and Global Governance, D. M. Lehmann Möllers and J. Nörr (Eds.), Nomos Verlagsgesellschaft. [in Germany].
- 5. Gercke, M. (Ed.) (2018). Cybercrime and money Laundering: Challenges for regulation and law enforcement. In Handbook on Cyber Crime, Springer. [in Germany].
- 6. Subbagari, S. (2024). Counter measures to combat money laundering in the new digital age. Digital Threats: Research and Practice, 5(2), 1–13. Retrieved from: https://doi.org/10.1145/3626826 [in USA].
- 7. Rysin, V. V., & Karpets, A. R. (2021). Osoblyvosti novitnikh sposobiv vidmyvannia hroshei z vykorystanniam finansovykh ustanov [Peculiarities of modern methods of money laundering using financial institutions]. *Business Inform*, (3), 132–140. Retrieved from: https://doi.org/10.32983/2222-4459-2021-3-132-140 [in Ukrainian].
- 8. Virtual assets: Targeted update on implementation of the FATF standards on VAS and VASPS. Retrieved from https://www.fatf-gafi.org/content/fatf-gafi/en/publications/Fatfrecommendations/targeted-update-virtual-assets-vasps-2024.html [in France].
- 9. State Financial Monitoring Service of Ukraine (2021). Aktualni metody, sposoby, instrumenty lehalizatsii (vidmyvannia) zlochynnykh dokhodiv ta finansuvannia teroryzmu (separatyzmu) [Relevant methods, techniques, and tools for legalization (money laundering) of criminal proceeds and financing of terrorism (separatism)]. Retrieved from: https://fiu.gov.ua/assets/userfiles/200/Typologies%20of%20the%20SFMS/UKR_Typology_2021_26_05.pdf [in Ukrainian].
- 10. Kramarenko, O. (2024). OON nazvala Tether odnym iz naipopuliarnishykh instrumentiv dlia vidmyvannia hroshei [The UN named Tether as one of the most popular tools for money laundering]. *PaySpace Magazine*. Retrieved from https://psm7.com/uk/cryptocurrency/oon-nazvala-tether-odnim-iz-samyx-populyarnyx-instrumentov-dlya-otmyvaniya-deneg.html [in Ukrainian].
- 11. Money laundering through cryptocurrencies. United Nations: UN Toolkit on Synthetic Drugs. Retrieved from

https://syntheticdrugs.unodc.org/syntheticdrugs/en/cybercrime/launderingproceeds/moneyla undering.html [in Austria].

- 12. Quick Guide 1: Cryptocurrencies and money laundering investigations. Basel Institute on Governance. Retrieved from https://baselgovernance.org/publications/quick-guide-1-cryptocurrencies-and-money-laundering-investigations [in Switzerland].
- 13. Common AML schemes: Virtual currencies | ACA group. (2024). Retrieved from: https://www.acaglobal.com/insights/common-aml-schemes-virtual-currencies [in USA].
- 14. Unger, B. (Ed.). (2016). Prepaid cards and money laundering. In Handbook of Money Laundering, Edward Elgar Publishing. [in United Kingdom].
- 15. Rasmussen, P. (Ed.). (2018). Online peer-to-peer payment systems and money laundering. In The Oxford Handbook of Digital Technology and Society, Oxford University Press. [in United Kingdom].
- 16. Brantly, A. F. (Ed.). (2019). Money laundering and digital identity theft. In Identity Theft Handbook: Detection, Prevention, and Security, CRC Press. 345–361. [in USA].
- 17. Lieonov, S., Vasilyeva, T., Mynenko, S. & Dotsenko, T. (2021). Banking in digital age: efficiency of anti-money laundering system. Financial and Credit Activity: Problems of Theory and Practice, 2(37), 4–13. https://doi.org/10.18371/fcaptp.v2i37.229678 [in Ukrainian].
- 18. Rysin, V. V. & Fedorovych, B. I. (2024). Osoblyvosti protydii vidmyvanniu hroshei na suchasnykh finansovykh rynkakh [Features of counteracting money laundering in modern financial markets]. *Business Inform*, (2), 228–236. Retrieved from: https://doi.org/10.32983/2222-4459-2024-2-228-236 [in Ukrainian].