

## MACROECONOMIC CRITERIA OF CURRENCY AND FINANCIAL CONVERGENCE: GUIDELINES FOR UKRAINE

Anatolii O. Zadoia, Alfred Nobel University, Dnipro (Ukraine).

E-mail: zadoya@duan.edu.ua

Alisa S. Mahdich, Alfred Nobel University, Dnipro (Ukraine).

E-mail: engprog@duan.edu.ua

Oleksandr A. Zadoia, Alfred Nobel University, Dnipro (Ukraine).

E-mail: o.zadoia@duan.edu.ua

DOI: 10.32342/2074-5354-2022-2-57-1

**Key words:** *macroeconomic indicators, convergence criteria, the European Union, eurozone.*

The aim of this study was to identify the most problematic issues of compliance by European countries with macroeconomic convergence criteria, to determine promising ways to overcome them and to assess new opportunities that open up to Ukraine as a result of further European integration.

Most research devoted to the study and achievement of monetary and financial convergence criteria focus on the candidates for joining the eurozone. However, the stability of monetary and financial system of the united Europe depends, to a certain extent, on how much the «old» members of the eurozone adhere to these criteria. That is why, the research methods included statistical data analysis of the EU member states at the time of joining the eurozone and during the last 10 years. To reveal the closeness of the relationship between individual indicators of monetary and financial convergence correlation analysis was used.

It was established that the degree of compliance with the reference values of public-debt related indicators in the eurozone countries is not the same. At the time of the introduction of the euro in 1999, only in 3 out of 11 countries the debt-to-GDP ratio was below 60%. In 2021, in 12 countries out of 19 consolidated public debt exceeded the reference value. Another indicator, the ratio of the deficit/surplus of the state budget to GDP, during the period of economic stability (2014-2019), in the majority of the eurozone countries, remained within the reference value. Also, almost all of the eurozone member countries meet the criterion of interest rates convergence throughout the entire period. The analysis of the price stability criteria showed that price dynamics basically reflects the state of the economy of the EU countries as a whole. During the periods of more or less stable growth (2014-2016), almost all countries, both within the eurozone and outside it, met the criterion of price stability. Beginning from 2017, each year, 5-6 countries go beyond the criterion due to the fact that the potential of the growth phase fades and countries try to stimulate it by accelerating inflationary processes. The criterion of exchange rate stability, at first sight, seems to be inapplicable for the analysis of the situation in those countries that are already members of the eurozone. However, although formally EUR to USD exchange rate may be identical in all countries of the eurozone, the ratio of the EUR real purchasing power in different countries may differ significantly. It was found that there are only few countries where purchasing power parity and the current exchange rate are quite close. It indicates that during the two decades of the EU membership, some countries still significantly lag behind the leaders, which may lead to disintegration tendencies.

The currency and financial convergence criteria can become guidelines for designing a post-war economic model of Ukraine. At the same time, the specifics of the situation will force our country, during the first post-war years, to deliberately deviate from these criteria, provided that this deviation is controlled.

### References

1. *Protokol pro kryteriyi konverhentsiyi z-hidno zi statteyu 121 Dohovoru pro zasnivannya Yevropeys'koyi Spil'noty* [Protocol on convergence criteria in accordance with Article 121 of the Treaty establishing the European Community]. Available at: [https://zakon.rada.gov.ua/laws/show/994\\_632#Text](https://zakon.rada.gov.ua/laws/show/994_632#Text) (Accessed 18 August 2022).

2. Baimbridge M., Burkitt B., Whyman P.B. (1999) Convergence criteria and EMU membership: Theory and evidence. *Journal of European Integration*, no. 21(4), pp. 281-305. doi:10.1080/07036339908429071.

3. Afxentiou Panos C. (2000). Convergence, the Maastricht Criteria, and Their Benefits. *The Brown Journal of World Affairs*, vol. 7, issue 1, pp. 245-254.
4. Hobijn B., Franses P.H. (2000). Asymptotically Perfect Convergence of Productivity. *Journal of Applied Econometrics*, no. 15, pp. 59-81.
5. Hobijn B. and Franses P.H. (2001). Are living standards converging? *Structural Change and Economic Dynamics*, no. 12, pp. 71-200.
6. Polasek W., Amplatz C. (2003). The Maastricht Criteria and the Euro: Has the Convergence Continued? *Journal of Economic Integration*, no. 18(4), pp. 661-688.
7. Jonas J. (2006). Euro adoption and Maastricht criteria: Rules or discretion? *Economic Systems*, vol. 30, issue 4, pp. 328-345. Available at: <https://doi.org/10.1016/j.ecosys.2006.06.002> (Accessed 20 August 2022).
8. Jacques Le Cacheux (2009). The challenges and trappings of convergence. *L'Europe en Formation*, no. 351, pp. 35 – 47.
9. Siklos, P.L. (2010). Meeting Maastricht: Nominal convergence of the new member states toward EMU. *Economic Modelling*, vol. 27, issue 2, pp. 507-515. Available at: <https://doi.org/10.1016/j.econmod.2009.11.003> (Accessed 20 August 2022).
10. Brož Václav, Kočenda Evžen (2018) Dynamics and factors of inflation convergence in the European union. *Journal of International Money and Finance*, vol. 86, pp. 93-111. Available at: <https://doi.org/10.1016/j.jimonfin.2018.04.002> (Accessed 22 August 2022).
11. Sang Hoon Kang, Jose Arreola Hernandez, Seong-MinYoon (2019). Who leads the inflation cycle in Europe? Inflation cycle and spillover influence among Eurozone and non-Eurozone economies. *International Economics*, vol. 160, pp. 56-7. Available at: <https://doi.org/10.1016/j.inteco.2019.10.001> (Accessed 22 August 2022).
12. Yilmazkuday Hakan (2022). Inflation convergence over time: Sector-level evidence within Europe. *Wiley Online Library*. Available at: <https://doi.org/10.1111/inf.12407> (Accessed 22 August 2022).
13. Convergence Report, June 2022 Available at: <https://www.ecb.europa.eu/pub/convergence/html/ecb.cr202206~e0fe4e1874.en.html> (Accessed 23 August 2022).
14. Toader Valentin, Gîdiua Valeria (2012). The study of nominal convergence in European Union. *Procedia Economics and Finance*, no. 3, pp. 871 – 876. Available at: [https://doi.org/10.1016/S2212-5671\(12\)00243-2](https://doi.org/10.1016/S2212-5671(12)00243-2) (Accessed 28 August 2022).
15. Eurostat. HICP - monthly data (12-month average rate of change). Available at: [https://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=prc\\_hicp\\_mv12r&lang=en](https://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=prc_hicp_mv12r&lang=en) (<https://ec.europa.eu/eurostat/data/database>) (Accessed 29 August 2022).

*Одержано 7.09.2022.*