

Okulicz-Kozaryn W.,
Doctor Honoris Causa,
Professor of National Louis University, Poland
Simakhova Anastasiia,
Doctor of Economic Sciences,
Professor of the Department of
Business Analytics and Digital Economy
National Aviation University

THE TREND OF FINANCING EDUCATION IN POLAND AND UKRAINE

One of the problems of modern education is weak and/or inefficient funding. The aim of the study was to obtain a general picture of education funding from the state budget in Poland and Ukraine.

The social sciences consist of many elements, including educational systems. In turn, educational systems include pupils and students, parents, state bodies, university and school teachers, university and school leaders, etc. The education systems are impacted by globalization processes, concerning to which all global trends like socialization, integration, regionalization, etc. change education (Sardak et al, 2017). That is why there are many problems of the educational systems.

One of the problems of modern education is weak and/or inefficient funding. One example was published in a scientific journal in Pakistan (Nasrullah et al., 2021). Survey respondents reported inefficiency of the centralized financing in the education system. The second one describes the inefficient use of public funds at a Polish university (Okulich-Kazarin, 2021). These examples are of great social, scientific and practical importance.

This study was carried out by the authors since May 2022 till January 2023 in Poland and Ukraine. It was focused on the analysis of trend lines of the public finance in the field of education services in Poland and Ukraine since 2010 till 2019.

The limitation of the study is the fact that the authors studied the dynamics of state funding in higher education in Poland and education in Ukraine. This could be considered a disadvantage of the study if the authors compared these trend lines.

However, the aim of the study was to obtain a general picture of education funding from the state budget in the two countries.

The following research methods were used:

- general scientific research methods;
- mathematical (regression) modelling.

The statistics on the use of public finance in Polish higher education are shown in Fig. 1. Statistical data show a gradual increase in the size of public finances spent in the higher education in GDP, in %.

Thus, Fig. 1 shows statistical data on the using of public finance in Polish higher education. On Fig. 1 previous data are supplemented with trend lines and mathematical (regression) models.

The graphs shown in Fig. 1 do provide grounds for assessing the effectiveness of the use of public finance in the field of higher education.

The data of the Fig. 1 allow us to make a prediction. If there are no significant changes in the system of public finance, then in Poland the size of public finance in education will increase, assuming no changes in the state public financing system.

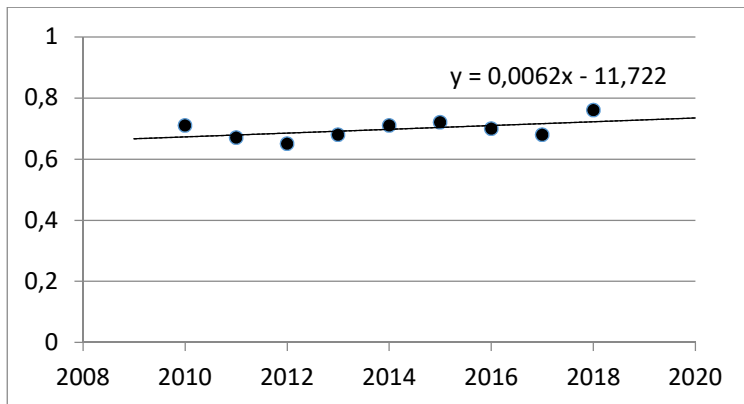


Figure 1. Public finance use in the field of higher education in Poland: trend line (Source: Public expenditure on higher education in relation to gross domestic product (GDP) in Poland from 2005 to 2020)

The statistics on the use of public finance in Ukrainian education are shown in Fig. 2. Statistical data show a gradual decrease in the size of public finances spent in the education in GDP, in %.

Thus, Fig. 2 shows statistical data on the using of public finance in Ukrainian education. On Fig. 2 previous data are supplemented with trend lines and mathematical (regression) models.

The graphs shown in Fig. 2 do provide grounds for assessing the effectiveness of the use of public finance in the field of education.

The data of the Fig. 2 allow us to make a prediction. If there are no significant changes in the system of public finance, then to 2050 in Ukraine the size of public finance in education will become zero, assuming no changes in the state public financing system.

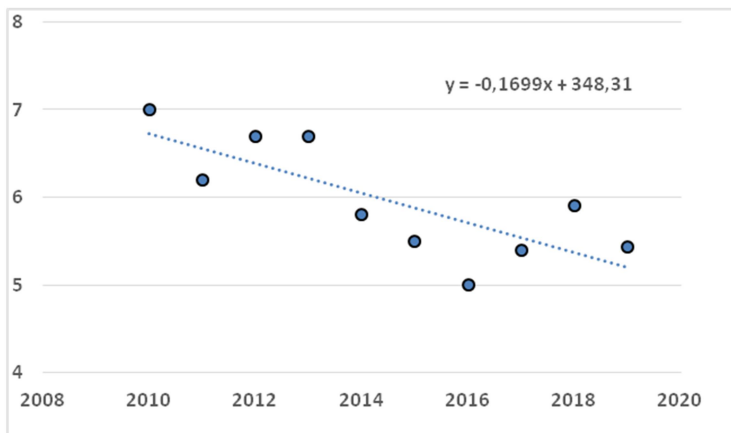


Figure 2. Public finance use in the field of education in Ukraine: trend line (Sources: World Bank, 2020; Statistical Yearbook of Ukraine in 2019 and 2020)

Thus, the authors have built trend lines for financing education from the state budget in Poland and Ukraine. These lines show a smooth increase in public financing in Poland and a smooth decrease in public financing in Ukraine.

References

1. Sardak S., Bilka O., & Simakhova, A. Potential of economy socialization in the context of globalization, *Economic Annals-XXI*. 2017. - 164(3-4), 4-8. URL: <https://doi.org/10.21003/ea.V164-01>.
2. Nasrullah Amin, R. U. & Soomro K. A. Decentralization of Education: The Affective Role of Fiscal Decentralization in Pakistani Education System(s). *FWU Journal of Social Sciences*, 2021. - 15(1), 41-51. URL: <http://doi.org/10.51709/19951272/spring2021/15-4>.
3. Okulich-Kazarin V. Two Examples of Inefficient Use of Public Finances in Poland, *Universal Journal of Accounting and Finance*, 2021. - 9(5), 1024 - 1032. URL: <http://doi.org/10.13189/ujaf.2021.090513>.
4. Singpurwalla D. *A Handbook of Statistics: An Overview of Statistical Methods*. Bookboon, 2015. - 80.