

p-ISSN 2300-4088
e-ISSN 2391-5951

Progress in Economic Sciences

**Czasopismo Naukowe Instytutu Ekonomicznego
Państwowej Wyższej Szkoły Zawodowej im. Stanisława Staszica
w Pile**

Nr 4 (2017)

RADA NAUKOWA

Ismail Aktar, Yalova University, Turcja

Lidia Antoshkina, Berdiansk University of Management and Business, Ukraina

Peter Čajka, Matej Bel University, Słowacja

Marek Chrzanowski, Szkoła Główna Handlowa w Warszawie Polska

Andrzej Czyżewski, Uniwersytet Ekonomiczny w Poznaniu, Polska

Dan Danuletiu, "1 Decembrie 1918" University in Alba Iulia, Rumunia

Jolanta Drożdż, Lietuvos agrarinės ekonomikos institutas, Litwa

Wojciech Drożdż, Uniwersytet Szczeciński, Polska

Mariola Dźwigoł-Barosz, Politechnika Śląska, Polska

Camelia M. Gheorghe, Romanian-American University Bucharest, Rumunia

Alexandru Ionescu, Romanian-American University Bucharest, Rumunia

Sergij Ivanov, Prydniprowska Państwowa Akademia Budownictwa i Architektury, Ukraina

Ana Jurcic, John Naisbitt University Belgrade, Serbia

Branislav Kováčik, Matej Bel University, Słowacja

Grażyna Krzyminiewska, Uniwersytet Ekonomiczny w Poznaniu Polska

Oleksandr Melnychenko, Uniwersytet Bankowy w Kijowie, Ukraina

Donat Jerzy Mierzejewski, Państwowa Wyższa Szkoła Zawodowa im. Stanisława Staszica w Pile, Polska

Dragan Mihajlovic, John Naisbitt University Belgrade, Serbia

Algirdas Miškinis, Vilnius University, Litwa

Radosław Miśkiewicz, Luma Investment S.A., Łaziska Górne, Polska

Ranka Mitrovic, John Naisbitt University Belgrade, Serbia

Elvira Nica, The Academy of Economic Studies Bucharest, Rumunia

Peter Ondria, Danubius University, Słowacja

Kazimierz Pająk, Uniwersytet Ekonomiczny w Poznaniu, Polska

Ionela Gavriła Paven, "1 Decembrie 1918" University in Alba Iulia, Rumunia

Marian Podstawka, Szkoła Główna Gospodarstwa Wiejskiego w Warszawie, Polska

Maria Popa, "1 Decembrie 1918" University in Alba Iulia, Rumunia

Gheoghe H. Popescu, Dimitrie Cantemir University Bucharest, Rumunia

Tadeusz Stryjakiewicz, Uniwersytet Adama Mickiewicza w Poznaniu, Polska

Andrzej Wiatrak, Uniwersytet Warszawski, Polska

KOMITET REDAKCYJNY

Redaktor naczelny

Jan Polcyn, Państwowa Wyższa Szkoła Zawodowa im. Stanisława Staszica w Pile, Polska

Sekretarz redakcji

Michał Bania, Państwowa Wyższa Szkoła Zawodowa im. Stanisława Staszica w Pile, Polska

Redaktorzy

Paweł Błaszczyk, Uniwersytet Ekonomiczny w Poznaniu, Polska

Agnieszka Brelik, Zachodniopomorski Uniwersytet Technologiczny w Szczecinie, Polska

Bazyli Czyżewski, Uniwersytet Ekonomiczny w Poznaniu, Polska

Krzysztof Firlej, Uniwersytet Ekonomiczny w Krakowie, Polska

Anna Hnatyzyn-Dzikowska, Uniwersytet Mikołaja Kopernika w Toruniu, Polska

Grzegorz Kinelski, Stowarzyszenie na rzecz Gospodarki Energetycznej Polski, IAEE, Polska

Joanna Kryza, Państwowa Wyższa Szkoła Zawodowa im. Stanisława Staszica w Pile, Polska

Emilia Lewicka-Kalka, Dolnośląska Szkoła Wyższa, Polska
Sebastian Stępień, Uniwersytet Ekonomiczny w Poznaniu, Polska
Anna Turczak, Zachodniopomorska Szkoła Biznesu w Szczecinie, Polska
Zofia Wyszowska, Uniwersytet Technologiczno-Przyrodniczy im. J.J. Śniadeckich
w Bydgoszczy, Polska

Redaktorzy tematyczni

Wawrzyniec Czubak, Uniwersytet Przyrodniczy w Poznaniu, Polska
Iulian Dobra, "1 Decembrie 1918" University in Alba Iulia, Rumunia
Silvia Maican, "1 Decembrie 1918" University in Alba Iulia, Rumunia
Andreea Muntean, "1 Decembrie 1918" University in Alba Iulia, Rumunia
Eugeniusz Wszołkowski, Państwowa Wyższa Szkoła Zawodowa im. Stanisława Staszica w Pile

Redaktor statystyczny

Grzegorz Przekota, Państwowa Wyższa Szkoła Zawodowa im. Stanisława Staszica w Pile

Redaktorzy językowi

Lyn James Atterbury, Państwowa Wyższa Szkoła Zawodowa im. Stanisława Staszica w Pile,
Polska
Ludmiła Jeżewska, Państwowa Wyższa Szkoła Zawodowa im. Stanisława Staszica w Pile,
Polska
Marek Kulec, Państwowa Wyższa Szkoła Zawodowa im. Stanisława Staszica w Pile, Polska

ZESPÓŁ RECENZENTÓW

Madalina Balau, Universitatea Danubius Galati, Rumunia
Piotr Bórawski, Uniwersytet Warmińsko-Mazurski w Olsztynie
Elena Druica, University of Bucharest, Rumunia
Anna Dziadkiewicz, Uniwersytet Gdański
Barbara Fura, Uniwersytet Rzeszowski
Agnieszka Głodowska, Uniwersytet Ekonomiczny w Krakowie
Justyna Góral, Instytut Ekonomiki Rolnictwa i Gospodarki Żywnościowej – PIB w Warszawie
Brygida Klemens, Politechnika Opolska
Andrzej Klimczuk, Szkoła Główna Handlowa w Warszawie
Patrycja Kowalczyk-Rólczyńska, Uniwersytet Ekonomiczny we Wrocławiu
Olive McCarthy, University College Cork, Irlandia
Anna Maria Moisello, University of Pavia, Włochy
Michał Moszyński, Uniwersytet Mikołaja Kopernika w Toruniu
Aklilu Nigussie, Ethiopian Institutes of Agricultural Research, Etiopia
Jarosław Olejniczak, Uniwersytet Ekonomiczny we Wrocławiu
Grzegorz Paluszak, Uniwersytet Warszawski
Arkadiusz Piwowar, Uniwersytet Ekonomiczny we Wrocławiu
Beata Przyborowska, Uniwersytet Mikołaja Kopernika w Toruniu
Diana Rokita-Poskart, Politechnika Opolska
Oksana Ruzha, Daugavpils University, Litwa
Joanna Smoluk-Sikorska, Uniwersytet Przyrodniczy w Poznaniu
Marzena Szewczuk-Stępień, Politechnika Opolska
Mirosława Szewczyk, Politechnika Opolska
Piotr Szukalski, Uniwersytet Łódzki
Joanna Wiśniewska-Paluszak, Uniwersytet Przyrodniczy w Poznaniu

Wersja elektroniczna czasopisma jest wersją pierwotną.



© Copyright by Państwowa Wyższa Szkoła Zawodowa
im. Stanisława Staszica w Piła

Piła 2017

p-ISSN 2300-4088

e-ISSN 2391-5951

Projekt realizowany
z Narodowym Bankiem Polskim
w ramach programu edukacji ekonomicznej



Poglądy autorów publikacji nie mogą być utożsamiane ze stanowiskiem
Narodowego Banku Polskiego.

Publikacja współfinansowana przez



Adres Redakcji: Instytut Ekonomiczny
Państwowa Wyższa Szkoła Zawodowa
im. Stanisława Staszica w Piła
ul. Podchorążych 10
64-920 Piła
tel. (067) 352 26 11
<http://pes.pwsz.pila.pl>
pne@pwsz.pila.pl

Czasopismo jest indeksowane w następujących bazach:
BazEcon, BazHum, CEJSH, DOAJ, Index Copernicus, ERIH Plus

Przygotowanie i druk:
KUNKE POLIGRAFIA, Inowrocław

Spis treści

ARTYKUŁY

Andrzej CZYŻEWSKI, Joanna STROŃSKA-ZIEMANN , Determinanty zmian w rolnictwie i na obszarach wiejskich w podregionie piłskim w świetle analizy czynnikowej.....	11
Marcin BORUTA , Gerontechnologia jako narzędzie w procesie zaspokajania potrzeb mieszkaniowych seniorów.....	25
Ryszard DZIEKAN, Magdalena KONIECZNY , Wykształcenie konsumentów żywności ekologicznej z województwa podkarpackiego a czynniki wpływające na jej zakup	37
Łukasz KRYSZAK, Jakub STANISZEWSKI , Czy mieszkając na wsi warto się kształcić? Kapitał ludzki jako determinanta dochodów na wsi i w mieście	51
Piotr KUŁYK, Łukasz AUGUSTOWSKI , Rozwój regionalny w kierunku trwale równoważonej gospodarki niskoemisyjnej	69
Milda Maria BURZAŁA , Synchronizacja aktywności gospodarczej Polski i Niemiec. Kilka uwag na temat przyczynowości.....	85
Joanna NUCIŃSKA , Uwarunkowania pomiaru efektywności finansowania edukacji – zarys problemu	103
Silvia Ștefania MAICAN, Ionela GAVRILĂ-PAVEN, Carmen Adina PAȘTIU , Skuteczna komunikacja i lepsze wyniki edukacyjne dla studentów specjalizacji ekonomicznych.....	119
Agnieszka POCZTA-WAJDA, Agnieszka SAPA , Paradygmat rozwoju zrównoważonego – ujęcie krytyczne	131
Grzegorz PRZEKOTA , Cenowe konsekwencje zróżnicowania rozwoju regionalnego w Polsce	143
Rafał KLÓSKA , Rozwój zrównoważony regionów w Polsce w ujęciu statystycznym	159
Zuzanna RATAJ, Katarzyna SUSZYŃSKA , Znaczenie społecznego budownictwa mieszkaniowego w zrównoważonym rozwoju	177
Dragan Ž. DJURDJEVIC, Miroslav D. STEVANOVIC , Problem wartości w postrzeganiu zrównoważonego rozwoju w międzynarodowym prawie publicznym	193

Dragica STOJANOVIC, Bojan DJORDJEVIC , Rozwój rynku węglowego i wydajności energetycznej w Republice Serbskiej	213
Biljana ILIĆ, Aleksandar MANIĆ, Dragan MIHAJLOVIĆ , Zarządzanie odnawialnymi źródłami energii i wybieranie projektów zrównoważonego rozwoju we wschodniej Serbii – metody MCDM	223
Marijana JOKSIMOVIC, Biljana GRUJIC, Dusan JOKSIMOVIC , Bezpośrednie inwestycje zagraniczne i ich wpływ na kraje rozwijające się ekonomicznie w trakcie przemian	239
Gabrijela POPOVIĆ, Dragiša STANUJKIĆ, Vesna PAŠIĆ TOMIĆ , Wybór projektu ośrodka przy użyciu programowania kompromisowego.....	247
Dragan KOSTIC, Aleksandar SIMONOVIC, Vladan STOJANOVIC , Zrównoważony rozwój regionu: przypadek Centrum Logistycznego w Pirot ...	257
Marija KERKEZ, Vladimir GAJOVIĆ, Goran PUZIĆ , Model oceny ryzyka powodzi przy użyciu rozmytego analitycznego procesu hierarchicznego	271
Katarzyna SMĘDZIK-AMBROŻY , Polityka rolna UE a zrównoważony rozwój rolnictwa w regionie wielkopolskim	283
Monika ŚPIEWAK-SZYJKA , Senior na rynku pracy	295
Sebastian STĘPIEŃ, Dawid DOBROWOLSKI , Straty i marnotrawstwo w łańcuchu dostaw żywności – propedeutyka problemu	305
Anna SZCZEPAŃSKA-PRZEKOTA , Identyfikacja wahań koniunkturalnych na rynku kontraktów terminowych na produkty rolne	317
Anna TURCZAK , Zatrudnienie w działalności badawczo-rozwojowej w wybranych krajach Unii Europejskiej i świata	333
Grzegorz KINELSKI, Kazimierz PAJĄK , Rynek konkurencyjny i źródła jego przewagi w subsektorze elektroenergetycznym	347
Agnieszka WLAZŁY , Wpływ zasobów środowiskowych na rozwój gospodarczy obszarów wiejskich na przykładzie Gminy Stare Miasto.....	361
Marta GUTH, Michał BORYCHOWSKI , Zrównoważony rozwój obszarów wiejskich w Polsce w polityce Unii Europejskiej w perspektywach finansowych na lata 2007–2013 i 2014–2020	387
Ranka MITROVIC, Ana JURCIC, Marijana JOKSIMOVIC , Wpływ bezpośrednich inwestycji zagranicznych na rozwój ekonomiczny Serbii i Polski	405
Radosław MIŚKIEWICZ , Wiedza w procesie pozyskiwania przedsiębiorstw	415
Andreea CIPRIANA MUNTEAN, Iulian BOGDAN DOBRA , Związek między satysfakcją turystów i lojalnością wobec kierunku podróży.....	433
Kodeks etyczny czasopisma „Progress in Economic Sciences”	455

Table of contents

ARTICLES

Andrzej CZYŻEWSKI, Joanna STROŃSKA-ZIEMANN , Determinants of changes in agriculture and rural areas in the Piła sub-region in the light of factor analysis	11
Marcin BORUTA , Gerontechnology in providing for the housing needs of the elderly	25
Ryszard DZIEKAN, Magdalena KONIECZNY , The education level of organic food consumers from the Podkarpackie province versus factors impacting its purchase	37
Łukasz KRYSZAK, Jakub STANISZEWSKI , Does education pay off for those living in the countryside? Human capital as a determinant of rural and urban workers' incomes	51
Piotr KUŁYK, Łukasz AUGUSTOWSKI , Regional development towards sustainable low-carbon economy	69
Milda Maria BURZAŁA , Synchronization of business activities between Poland and Germany. A few comments on causality	85
Joanna NUCIŃSKA , Conditions for measuring the efficiency of education funding: an outline of the problem	103
Silvia Ștefania MAICAN, Ionela GAVRILĂ-PAVEN, Carmen Adina PAȘTIU , Effective Communication and Improved Educational Results for Students in Economic Specializations	119
Agnieszka POCZTA-WAJDA, Agnieszka SAPA , The paradigm of sustainable development: a critical approach	131
Grzegorz PRZEKOTA , The consequences of price differentiation for regional development in Poland	143
Rafał KLÓSKA , Sustainable development of individual regions in Poland in terms of statistics	159
Zuzanna RATAJ, Katarzyna SUSZYŃSKA , The importance of social housing in sustainable development	177
Dragan Ž. DJURDJEVIC, Miroslav D. STEVANOVIC , Value problem in perception of sustainable development in international public law	193

Dragica STOJANOVIC, Bojan DJORDJEVIC , Carbon Market Development and Energy Efficiency in the Republic of Serbia	213
Biljana ILIĆ, Aleksandar MANIĆ, Dragan MIHAJLOVIĆ , Managing renewable energy resources choosing the sustainable development projects in Eastern Serbia – MCDM methods	223
Marijana JOKSIMOVIC, Biljana GRUJIC, Dusan JOKSIMOVIC , Foreign direct investment and their impact on economic development countries in transition	239
Gabrijela POPOVIĆ, Dragiša STANUJKIĆ, Vesna PAŠIĆ TOMIĆ , Resort Project Selection by Using Compromise Programming	247
Dragan KOSTIC, Aleksandar SIMONOVIC, Vladan STOJANOVIC , Sustainable development of the region: the case of Logistic Centre Pirot	257
Marija KERKEZ, Vladimir GAJOVIĆ, Goran PUZIĆ , Flood risk assessment model using the fuzzy analytic hierarchy process	271
Katarzyna SMĘDZIK-AMBROŻY , The European Union’s (EU) agricultural policy and the sustainable development of agriculture in the Wielkopolska region	283
Monika ŚPIEWAK-SZYJKA , The elderly on the labour market	295
Sebastian STĘPIEŃ, Dawid DOBROWOLSKI , Loss and waste in the food supply chain: an introduction to the problem	305
Anna SZCZEPAŃSKA-PRZEKOTA , Fluctuations in the futures market for agricultural products	317
Anna TURCZAK , Employment in the research and development sector in selected countries of the European Union and the world	333
Grzegorz KINELSKI, Kazimierz PAJAŁ , Competitive market and sources of its advantages in the electric energy subsector	347
Agnieszka WLAZŁY , The impact of environmental resources on the economic development of rural areas using the example of the Stare Miasto municipality	361
Marta GUTH, Michał BORYCHOWSKI , Sustainable development of rural areas in Poland in the European Union policy and the financial perspectives for 2007–2013 and 2014–2020	387
Ranka MITROVIC, Ana JURCIC, Marijana JOKSIMOVIC , Impact of FDI on the Economic Development of Serbia and Poland	405
Radosław MIŚKIEWICZ , Knowledge in the process of enterprise acquisition	415
Andreea CIPRIANA MUNTEAN, Iulian BOGDAN DOBRA , Considerations regarding relationship between tourists satisfaction and destination loyalty ..	433
‘Progress in Economic Sciences’ – Code of Ethics	461

Ranka MITROVIC*
Ana JURCIC**
Marijana JOKSIMOVIC***

Impact of FDI on the Economic Development of Serbia and Poland

Introduction

Investments lays the groundwork for improving and expanding production. It is a means of expanding and sustaining the capital of a firm. Rational usage of investment assists economic growth and the expansion of national wealth and GDP. Investment is beneficial for technical progress – it is used for upgrading equipment and technologies so that unused resources can be put into production. Investment in science, and research and development stimulates development, innovation implementation and efficient usage of production capacities¹. Investment contributes to the spreading of scientific and technical achievements from company to company and from state to state. New skills, organisational entities and management methods are being adopted.

FDIs influence economic growth and interact with other factors: labour force, capital, foreign economic relations, natural resources. There are mutual benefits. The country from which the investor receives income taxes and the country where it is invested improves its financial potential and the welfare of the citizens. The flow of Foreign Direct Investments are calculated when the outflow of capital, including amortization and damages, is subtracted from the investment mass.

Foreign Direct Investments are long-term holdings mostly in the scope of production e.g. building factories, buying equipment, developing raw material deposits, mines and, most recently, IT outsourcing. They are characterised by the long-term use of the facilities and long-lasting income. FDIs are an act of entrepreneurship and sustained commitment from a foreign investor. According to the UN, the purpose of FDIs is to acquire a lasting share or effective

* John Naisbitt University, Serbia

** John Naisbitt University, Serbia

*** John Naisbitt University, Serbia

¹ STOYKOV I., *International investment policy*, SA D.A. Cenov, Svishtov 2005, p. 11.

control over a company that is functioning outside the investor's country². Foreign Direct Investments are needed when:

- building new capacity;
- developing new production facilities;
- developing economic infrastructure;
- setting up joint ventures with multinational companies;
- implementing new technologies through buying patents, licenses and know-how and
- creating business clusters.

To put it in a nutshell, FDIs take place when an investor sees better conditions for doing business abroad. Reasons vary depending on the business models but the goal is to make profit in the long term. It is widely agreed that foreign direct investments (FDIs) take place when three sets of determining factors coexist at the same time (Dunning, 1993a): the ownership of specific competitive advantages in a transnational corporation (TNC), advantages about location in a host country, as well as the presence of benefits in according to benefits about arm's-length transactions³.

First of all, the ownership-specific advantages (e.g. proprietary technology) of a firm, if exploited optimally, can compensate for the additional costs of establishing production facilities in a foreign environment and can overcome the firm's disadvantages compared to local firms. Then, the ownership-specific advantages of the company should go hand-in-hand with the location advantages of the host country (e.g. large markets or lower costs of resources or a better infrastructure). Finally, companies find bigger benefits in exploiting both location and ownership-specific advantages by internalisation: through FDIs rather than arm's-length transactions.

By choosing to invest abroad, companies develop a wider variety of instruments to shrink costs and thus increase income. As a mutual benefit, the recipient country receives income in the form of taxation and, as we will see in the case study, a better standard of living. Lately, governments have been advertising the advantages of choosing to invest in their countries which is why Serbia and Poland have created policies to attract FDIs. According to EY's 2016 European FDI attractiveness ranking, Europe's manufacturing appeal remains intact, accounting for 49% of FDI projects and 62% of FDI jobs. In manufacturing industries, investment in Poland (117 projects, +34%) and Serbia (51 projects, +76%) drove FDI growth. The automotive sector drove manufacturing growth in Poland, while machinery and equipment were dominant for Serbia⁴. The same source (EY's Global Investment Monitor, 2016) shows figures





















² http://www.un.org/esa/sustdev/natlinfo/indicators/methodology_sheets/global_econ_partnership/fdi.pdf.

³ http://unctad.org/en/Docs/wir1998_en.pdf p. 89.

⁴ <http://www.ey.com/gl/en/newsroom/news-releases/news-ey-foreign-direct-investment-in-europe-at-an-all-time-high-despite-uncertainties-posing-risks>.

regarding the top 10 European countries by FDI projects and by job creation. Poland is highly positioned in second place for job creation. The same scale put Serbia as 9th of the top ten countries by same criteria and while Serbia is not in the top ten list by FDI projects, Poland is ranked at number seven.

Figure 1. EY's 2016 European attractiveness survey rankings⁵

Top 10 countries by FDI projects					Top 10 countries by job creation				
		2015	2014	% change			2015	2014	% change
	UK	1,065	887	20%		UK	42,336	31,344	35%
	Germany	946	870	9%		Poland	19,651	15,485	27%
	France	598	608	-2%		Germany	17,126	11,890	44%
	Spain	248	232	7%		Russia	13,672	18,248	-25%
	Netherlands	219	149	47%		France	13,639	12,579	8%
	Belgium	211	198	7%		Romania	12,746	10,892	17%
	Poland	211	132	60%		Hungary	11,741	4,868	141%
	Russia	201	125	61%		Ireland	10,772	7,306	47%
	Turkey	134	109	23%		Serbia	10,631	5,104	108%
	Ireland	127	106	20%		Slovakia	9,564	8,012	19%
	Others	1,123	1,032	9%		Others	55,788	60,620	-8%
	Total	5,083	4,448	14%		Total	217,666	186,348	17%

Source: EY's Global Investment Monitor, 2016

Methods and statistical material

Data for this paper was obtained from the database of The World Bank, UNCTAD and other relevant research papers. The analysis also included figures about FDI inflow and outflow for Poland and Serbia, which were examined from 2005–2015.

Discussion of results

The purpose of the analytical part of this research is to examine the impact of FDIs on the economies of Serbia and Poland for the period from 2006 to 2015. To determine whether there is a connection between the amount of FDI and the wellbeing of the citizens, the most appropriate macroeconomic indicator is GDP per capita, because it shows the average wealth of the citizens of

⁵ <http://www.ey.com/gl/en/newsroom/news-releases/news-ey-foreign-direct-investment-in-europe-at-an-all-time-high-despite-uncertainties-posing-risks>.

a country for a period of a year. As FDIs have a long-term effect on a country's economy, it is reasonable to include them in the whole amount, accumulated in the economy for the period of the case study. Dunning's (1993) contribution is worth mentioning because it constitutes the starting point for all following elaborations on this issue⁶.

Benefits of FDIs in Serbia and Poland

Benefits of investing in Serbia

Over the past four years the Republic of Serbia has taken steps to further improve political and economic stability. To reverse Serbia's trend of economic growth driven by import and consumption, and to put the former Yugoslav Republic on a dynamic and sustainable growth path, economic reforms were carried out. Their purpose was to stabilise the macroeconomic variables and improve the business climate.

Then, since 2014, the Government of the Republic of Serbia has taken steps towards reducing the government debt and fostering a greater fiscal responsibility. Reforms of the public administration and of state-owned enterprises were undertaken. The past few years are also marked by an overall increase of productivity in the public sector.

Serbia has a very favourable tax regi. Corporate income tax rate is 15%. Personal income tax is 10%, flat rate. According to *EUROSTAT*, Serbia has the lowest costs of electricity, gas, other fuels and landline telephony among 37 European states. Depreciation time for computers and new manufacturing equipment is two years. Serbia has one of the most competitive costs for labour in Central and Eastern Europe. The average gross monthly salary is 506 Euros⁷.

Corporate Income Tax Relief: A 10-year Corporate Profit Tax Holiday is available for investors who hire more than 100 employees and invest more than 8.5 million Euros. The tax holiday begins once the company starts making a profit⁸. When a firm decides to resort to FDI in order to take advantage of a foreign market, the problem of choosing the host country might be still unsolved. Indeed, the firm can actually invest in a country which is different from the market it wants to exploit, as in the case of „export platform” FDI⁹.

Location is another strategic benefit. Serbia is located at the heart of the Balkans, with good transportation links for cargo provided by two Pan-

⁶ DUNNING J. H. (1993), *Multinational Enterprises and the Global Economy* (Harlow: Addison-Wesley).

⁷ The Vienna Institute for International Economic Studies, 2015.

⁸ <http://ras.gov.rs/uploads/2016/06/why-invest-may-16-1.pdf>.

⁹ Ekholm K. et al. (2003), Export-platform foreign direct investment, Working Paper 9517, NBER.

European corridors which pass through the country, and two major airports: Belgrade and Nis. Belgrade Airport Nikola Tesla and the Danube River connects Serbia with the other countries of the Danube Region. Due to its location, Serbia provides direct access to the following key markets¹⁰:

- ❑ European Union – zero tariff market with 500 million consumers, 66% of total exports;
- ❑ Russia, Kazakhstan and Belarus – 171.1 million consumers, 5.9% of total exports;
- ❑ Turkey – zero tariff market of nearly 80 million population, 1.9% of total exports;
- ❑ CEFTA – 20.1 million consumers, 18.6% of total exports;
- ❑ US – 321.4 million consumers, 1.9% of total exports.

Transport costs can be described as direct and indirect. The former refers to freight charges and the relative insurance on shipments. The latter includes holding, inventory and preparation costs. While transportation costs have a significant impact on the level of tradability of goods, communication costs impact more on the extent of tradability of services¹¹.

Macroeconomic factors are a very important motive for FDI. For example, the exchange rate is crucial in the decision-making process for FDI and the transfer of capital. The current literature usually identifies a positive relationship between depreciation of the local currency and FDI (Froot and Stein, 1991; Klein and Rosengren, 1994; Barrel and Pain, 1998)¹². MNCs look for countries which have stable macroeconomic variables and stable exchange rates as well. In last few years Serbia has had a relatively stable exchange rate.

On the other hand, human resources are another benefit for investment of international companies. The work force is well-educated with 243,000 active students studying in five university centres across Serbia. Human resources in Serbia are highly skilled and multilingual, with about 62% (appr. 4.6 million) of the total population of working age and, based on 100K+, 86% of the population has good English language proficiency, 12% Russian and German, 6% French and Spanish, and 4% are proficient in Italian¹³.

Rating agencies, organisations like the World Bank and business magazines rate countries according to the conditions for doing business in them. This measure can help potential investors analyse even further their perspectives when choosing a recipient country for FDI. According to the World Bank¹⁴,

¹⁰ Statistical Office of the Republic of Serbia, 2015.

¹¹ HUMMELS D. (2007) *Transportation costs and international trade in the second era of globalization*, The Journal of Economic Perspectives, 21(24), pp. 131–154.

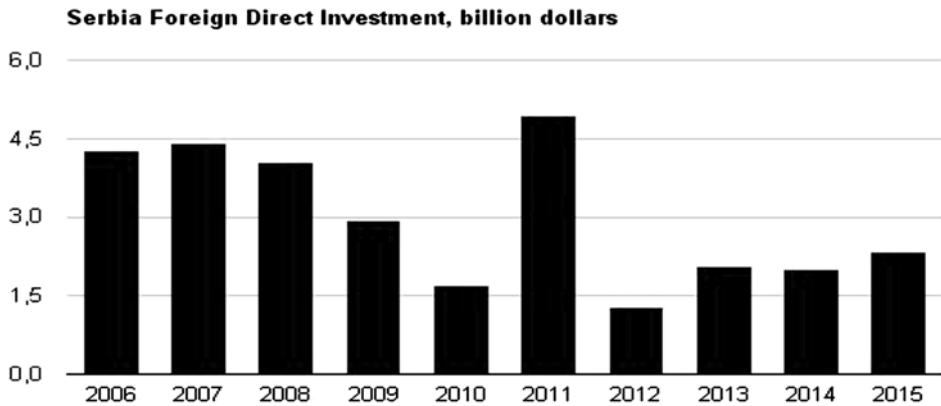
¹² *Why do firms invest abroad? An analysis of the motives underlying Foreign Direct Investments*, Chiara Franco Francesco Rentocchini Giuseppe Vittucci Marzetti August 2008 *The ICAFI University Journal of International Business Law*, 9, (1–2), pp. 42–65.

¹³ InfoStud indication of knowledge of languages, based on 100K+.

¹⁴ <http://www.doingbusiness.org/rankings>.

for 2016 the top location for FDI in Europe and Central Asia was Macedonia, ranking 10th worldwide, while Serbia is ranked as 47th. A favourable business climate is crucial for attracting investments including FDI. This is why continuous efforts for improving and maintaining the image of our economies are needed.

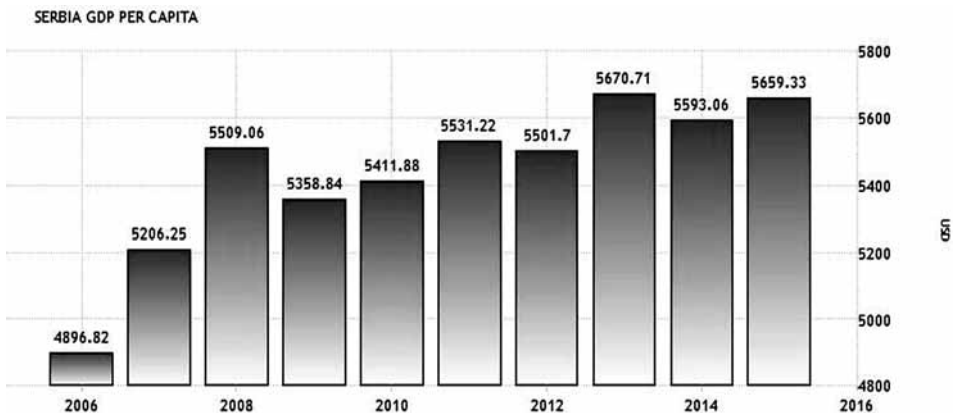
Figure 1. The Value of FDI in Serbia



Source: TheGlobalEconomy.com, The World Bank

The amount of FDI in Serbia varies yearly. Before the financial crisis, for the years 2006 and 2007 it was about 4 billion USD. Following the crisis, the value gradually reduced from 2008 to 2010 to 1.6 billion USD yearly. In 2011, there is a spike and the total amount was almost 5 billion USD. From 2012 to 2015 investments have gradually increased and for 2015 the amount is about 2 billion USD.

Figure 2. GDP Per Capita in Serbia



SOURCE: WWW.TRADINGECONOMICS.COM | WORLD BANK

GDP per Capita in Serbia was steadily growing in the period 2006–2008, from 4897 USD to 5509 USD. This was an increase of 12.5% for the whole period and about 4% annually. In the years after 2008, the index steadied to around 5500 USD and in 2015 it amounted to 5659.33 USD. In order to establish a statistical correlation between the two total amounts of FDIs for the examined period, we need two total amounts of the GDP.

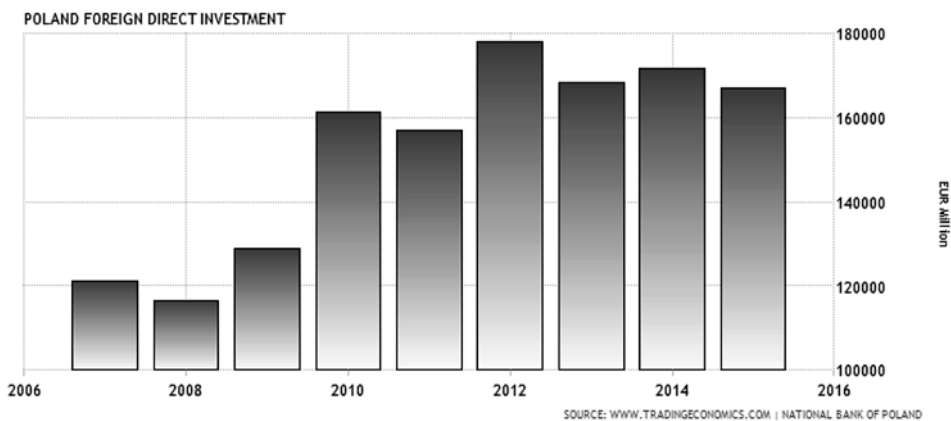
When comparing the tendencies of movement in the amount of FDI and amount for the period 2006 to 2015, a coefficient of positive correlation of 93.2% is calculated. This is a strong positive correlation that indicates a positive connection between those two variables. In next section, we will test correlation between the same variables in Poland.

Benefits of investing in Poland

The investment environment in Poland is specific because of the great disparity in terms of economic development between the eastern and western parts of the country. In order to overcome this problem, the Responsible Development Strategy anticipates and defines the measures of social and economic development of every region. The main fundament is reflected in the assembly of a number of smaller municipalities and smaller regions to make a larger region. In order to harmonise the socio-economic development of the Poland provinces, it is necessary to stimulate the macroeconomic environment to make it more attractive in order to attract foreign investments.

Diagram 3 indicates that there is a relatively stable FDI value in the past three years with an indicated fall from 2012. Analysing the data and the value of FDI in 2015 it is noted that the largest number of investments are coming from the most developed EU countries: Great Britain, Germany, Austria and others. It is expected to have an inflow of foreign investments to Polish economy.

Figure 3. The Value of FDI in Poland



Further analyses of FDI indicates that most of the investments are concentrated in the manufacturing sector, followed by scientific and technological developments and companies in the field of information and communication technologies. Data shows that a significant presence in the manufacturing sector compared to the service sector is because of an adequate country investment strategy. In other words, investing in production contributes to the growth of the employment rate, because only the manufacturing sector can become a strong input for the economy in the future.

This is supported by data from the National Polish Bank indicating that in 2015 the number of unemployed fell by 260,000. Furthermore, in November 2016, also according to the data of the National Bank of Poland, the unemployment rate was 8.2% which is the lowest rate since 1991. This is the result of long-term strategies to reduce the unemployment rate and the increase of trained workers with appropriate skills.

Conclusion

Given the collected and analysed data and theoretical developments in the field of FDI the basic assumption in the paper is presented. It is confirmed that the degree of economic development significantly depends on the levels of FDI and that the increase of direct investment shows a positive correlation with the regional development which is the subject of this paper.

Furthermore, FDI represents a reduction in regional disparities because it directly contributes to the regional development and a reduction in the unemployment rate.

Finally, the Polish model in terms of a reduction in regional inequality and an increase in economic wellbeing may be partially applied to the Republic of Serbia while implementing the Regional Development Strategy.

Bibliography

- FRANCO Ch., RENTOCCHINI F., VITTUCCI MARZETTI G., *Why do firms invest abroad? An analysis of the motives underlying Foreign Direct Investments*, August 2008, The ICFAI University Journal of International Business Law, 9, (1-2), pp. 42-65.
- DUNNING J. H. (1993), *Multinational Enterprises and the Global Economy* (Harlow: Addison-Wesley).
- Economy Rankings, <http://www.doingbusiness.org/rankings>.
- EKHOLM K. et al. (2003), *Export-platform foreign direct investment*, Working Paper 9517, NBER.
- Financial Observer, <http://www.financialobserver.eu/poland/labor-supply-in-poland-will-continue-to-decrease-for-years/>.

- Foreign direct investment in Europe at an all-time high, despite uncertainties posing risks, <http://www.ey.com/gl/en/newsroom/news-releases/news-ey-foreign-direct-investment-in-europe-at-an-all-time-high-despite-uncertainties-posing-risks>.
- Foreign Direct Investment, http://www.un.org/esa/sustdev/natlinfo/indicators/methodology_sheets/global_econ_partnership/fdi.pdf.
- HUMMELS D. (2007), *Transportation costs and international trade in the second era of globalization*, The Journal of Economic Perspectives, 21(24).
- InfoStud indication of knowledge of languages, based on 100K+.
- OECD, Stat Extracts – 2016.
- RAS, Development Agency of Serbia, <http://ras.gov.rs/uploads/2016/06/why-invest-may-16-1.pdf>
- Statistical Office of the Republic of Serbia, 2015.
- STOYKOV I., *International investment policy*, SA D. A. Cenov, Svishtov 2005.
- The Vienna Institute for International Economic Studies, 2015.
- *Why do firms invest abroad?* An analysis of the motives underlying Foreign Direct Investments, August 2008 The ICFAI University Journal of International Business Law, 9, (1–2), pp. 42–65.
- World Investment Report 1998, Trends and Determinants, http://unctad.org/en/Docs/wir1998_en.pdf.

Wpływ bezpośrednich inwestycji zagranicznych na rozwój ekonomiczny Serbii i Polski

Streszczenie

Inwestycje są kluczowe dla rozwoju gospodarczego. We współczesnym środowisku intensywnej powiązań finansowych z ekspansją firm ponadnarodowych, znaczna część inwestycji jest dokonywana przez firmy zagraniczne. Czynnikiem korzystnym dla bezpośrednich inwestycji zagranicznych (ang. FDI) są zasoby naturalne, położenie geograficzne, specyfika siły roboczej, poziom technologii oraz inne warunki w danym kraju. Intensywny proces globalizacji w ostatnich dekadach przyczynił się do łatwiejszego przesuwania kapitału poprzez usuwanie ograniczeń. Głównym celem tej pracy jest zbadanie charakteru FDI w Serbii i Polsce oraz ich roli we wzroście gospodarczym a także ich wpływu na lokalne gospodarki. Praca ta przedstawia analizę porównawczą pomiędzy Serbią a Polską w zakresie wpływu FDI na rozwój gospodarczy obu krajów.

Słowa kluczowe: wzrost gospodarczy, FDI, rozwój, kapitał

Impact of FDI on the Economic Development of Serbia and Poland

Abstract

Investments are crucial for economic growth. In the contemporary environment of intensive international financial connections and with the expansion of transnational companies a substantial part of investments are made by foreign companies. Beneficial factors for foreign direct investments are natural resources, geographical position, spe-

cifics of the labour force, the technology level and other specifics for certain country conditions. The intensive globalisation process in recent decades contributed to an easier movement of capital by cutting restrictions. The main purpose of this paper is to investigate the nature of FDIs in Serbia and Poland and their role in economic growth, as well as the effects they create in local economies. This paper will show a comparative analysis between Serbia and Poland regarding the impact of FDIs on the economic development of both countries.

Key words: economic growth, FDI, development, capital

JEL: F21, G1

Wpłynęło do redakcji: 28.02.2017 r.
Skierowano do recenzji: 06.03.2017 r.
Zaakceptowano do druku: 19.05.2017 r.