

CENTRE FOR REGIONAL  
AND LOCAL ANALYSES

# REGIONAL INVESTMENT ATTRACTIVENESS 2013

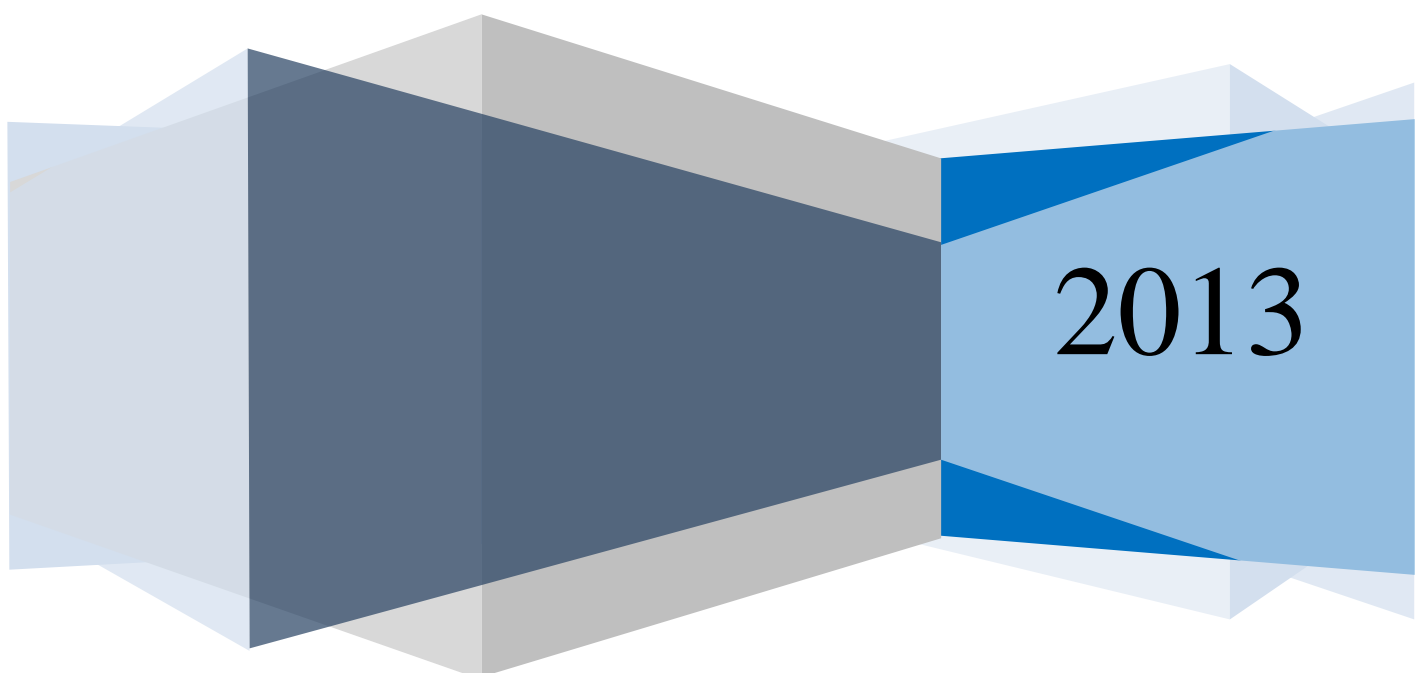
Opole voivodship

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## Introduction

This report has been prepared thanks to the application of results of scientific research conducted since 2002 by the Institute of Enterprise, Collegium of Business Administration of the Warsaw School of Economics (WSE), under the supervision of H. Godlewska-Majkowska, Ph.D., university professor at the WSE. All the Authors are the core members of a team that develops methodology of calculating regional investment attractiveness in order that characteristics of regions, which are important to investors, are captured as closely as possible, both in general terms and from a point of view of specificity of a given kind of business activity as well as a size of investment.

Potential investment attractiveness (PAI) indices measure the location-specific advantages of regions. In their simplified version they are calculated for territorial units of various levels of statistical division of the country (communes – Polish: *gmina*, counties – Polish: *powiat*, subregions, voivodships/regions). These are PAI1 indices, which refer to the whole regional/national economy (PAI1\_GN) and selected sections: C – manufacturing industry, G – trade and repair, I – tourism and catering, M – professional, scientific and technical services.

Besides, some indices are calculated only for the voidoships, on the basis of characteristics available only on the regional or macroregional level which allows evaluating their investment attractiveness in a much broader context. These are PAI2 indices, which are calculated both from a general point of view and with reference to the above mentioned sections of the economy (PAI2\_C, PAI2\_G, PAI2\_I, PAI2\_M).

What is more, ranks of real investment attractiveness, which relates to the inflow of capital (in the form of investments) and the effects of investments considered from a point of view of productivity and returns on the outlays made, are used in this report.

The measurements in use are subject to annual review thanks to consulting them with foreign investor assistance institutions and direct contact to territorial self-government units as well as organizations of entrepreneurs. A description of methodological approach to measuring investment attractiveness of Polish regions, counties and communes can be found online on the website of the Centre for Regional and Local Analyses, which cooperates with the Institute of Enterprise: [www.caril.edu.pl](http://www.caril.edu.pl), as well as in numerous scientific publications and expert opinions.

## 1. The profile of regional economy of Opole voivodship

Opole voivodship is situated in the south-western part of Poland. It is a region with very intensive agriculture thanks to which it is a beneficial location for food industry. The high level of agrarian culture and fertile soils also influence positively the quality of location for food industry. The region has long-established industrial traditions, in particular in the manufacture of food, mineral products, metal products, machinery and equipment as well as chemicals and chemical products. Its near-border location and numerous border crossings (both road and railway ones) predisposes the region to cooperation with Germany and the Czech Republic.

The advantages of the voivodship are also:

- its location on main domestic and European traffic routes (A4 highway),
- excellent access to inland shipping thanks to the Oder and the Gliwice-Kędzierzyn Koźle channel (the port in Kędzierzyn is the largest inland port in Poland),
- well-developed communications infrastructure including access to the Internet (the voivodship belongs to the highest rated regions in Poland),
- presence of higher education institutions,<sup>1</sup>
- rich resources for manufacture of mineral products – the possibility of specialisation in sectors supporting the construction industry,
- multicultural mindset of the inhabitants of the voivodship which results in their tolerance and openness to the inflow of foreign capital; this feature is strengthened by the membership of Opole voivodship of the Praded Euroregion and the Silesia Euroregion.

The general characteristics of the Opole voivodship are presented in Table 1.

**Table 1. General characteristics of the economy of Opole voivodship**

Feature	Opole voivodship	Poland	Share [%]
<b>Market Potential</b>			
GDP per capita 2010. (PLN/person)	29,498	37,096	-
Population (persons) on 31 December 2012	1,010,203	38,533,299	2.6
<b>Human Resources Potential</b>			
Higher education institutions graduates (persons) in 2012	11,792	484,999	2.4
Secondary schools graduates (persons) in 2012	10,398	421,317	2.5
Number of employed persons on 31 December 2012	314,242	1,391,1203	2.3
Structure of employed persons 2012	agriculture 16.1% industry 31.8% services 52.1%	agriculture 17.1% industry 27.4% services 55.5%	

<sup>1</sup> In 2010 the Ministry of Science and Higher Education ranked among the best scientific establishments in Poland the following ones: the Institute of Heavy Organic Synthesis 'Blachownia' in Kędzierzyn-Koźle, the Faculty of Construction and the Faculty of Technical and IT Education of the Opole University of Technology, the Faculty of Philology of the University of Opole.

Investment outlays and capital of companies with foreign capital participation in the voivodship			
Investment outlays (PLN m) in 2011	877.4	73704.4	1.2
Capital of companies (PLN m) in 2011	1690.6	194160.6	0.9
Special economic zones (SEZs) in the voivodship*			
<ul style="list-style-type: none"><li>– Katowice SEZ, subzones in: gm. Gogolin, gm. Kietrz, gm. Krapkowice, gm. Strzelce Opolskie, gm. Ujazd, m. Kędzierzyn-Koźle</li><li>– Starachowice SEZ, subzone: gm. Tułowice</li><li>– Wałbrzych SEZ, subzones in: gm. Kluczbork, gm. Namysłów, gm. Nysa, gm. Praszka, gm. Prudnik, gm. Skarbimierz, m. Opole</li></ul>			
Distinguishing investment attractiveness ratings PAI_2 and RAI (class A, B and C)			
Potential investment attractiveness PAI_2			
Real investment attractiveness RAI		Science and technical professional activity Class B	
Counties and communes distinguished according to the Potential Attractiveness Index for the national economy (PAI_GN)			
Counties	Class A	Opole	
	Class B		
Communes	Class A	Brzeg (1), Skarbimierz (2), Namysłów (3), Kędzierzyn-Koźle (1), Zdzeszowice (3), Dobrzeń Wielki (2), Tułowice (2), Opole (1)	
	Class B	Kluczbork (3), Nysa (3), Prudnik (3), Bierawa (2), Gogolin (3), Krapkowice (3), Chrzastowice (2), Niemodlin (3), Ujazd (3)	

Source: Authors' own calculations.

\* On the above list and further in the report *gm.* is a Polish abbreviation for *gmina* – commune and *m.* is an abbreviation for *miasto* – city. If there is information *city* following the name of the county, it indicates a commune which has a status of a city and carries out county's tasks is mentioned (a city county). Otherwise the counties include more than one commune (land counties).

Additional information: (1) – urban commune, (2) – rural commune, (3) – urban-rural commune.

In 2010 Opole voivodship made a contribution of 2.1% to the GDP of Poland. Calculated per capita, it amounted to PLN 29,498 with the average for Poland PLN 37,096. With this result the voivodship takes the 11<sup>th</sup> place in the country. The GDP growth rate in the voivodship in the years 2003-2010 amounted to 164.7% while the average for Poland amounted to 168%. In comparison with the whole country the structure of employment in the voivodship is characterised by a relatively low share of the service sector (52.1% ) whereas a share of the agricultural and industrial sectors are respectively 16.1% and 31.8% (Central Statistical Office, Regional Data Bank 2013).

The number of inhabitants of the voivodship amounts to 1,010,203 (as of 2013), which is 2.6% of the population of Poland. The age structure in the voivodship in 2012 was as follows: 16.6% of the population at pre-productive age, 65.1% at productive age and 18.3% at post-productive age (for Poland it was 18.3%, 63.9% and 17.8% respectively). The registered unemployment rate in the voivodship amounted to 13.5% in August 2013, compared to 13%

in Poland. The average monthly gross wages and salaries in enterprises sector in the first half-year of 2013 amounted to PLN 3335.8, which is 88.5% of the average for Poland.

The main potential for human capital creation in the voivodship lies in 6 higher education institutions in which there are 35 thousand students studying, which makes up 2.1% of all students in Poland. Moreover, 3.1% of the secondary school students in the voivodship attend vocational schools and 2.7% attend technical schools.

The voivodship's strategic sectors mentioned in the strategy of regional development include above all: manufacture of chemicals and chemical products, manufacture of food, construction and others: power industry, manufacture of machinery and equipment, the manufacture of metallic and non-metallic mineral products, timber industry.

Preferential conditions of conducting business activities are offered in the voivodship i.a. in the following special economic zones:

- Katowice SEZ subzone: gm. Gogolin, gm. Kietrz, gm. Krapkowice, gm. Strzelce Opolskie, gm. Ujazd, m. Kędzierzyn-Koźle,
- Starachowice SEZ, subzone: gm. Tułowice,
- Wałbrzych SEZ, subzone: gm. Kluczbork, gm. Namysłów, gm. Nysa, gm. Praszka, gm. Prudnik, gm. Skarbimierz, m. Opole.

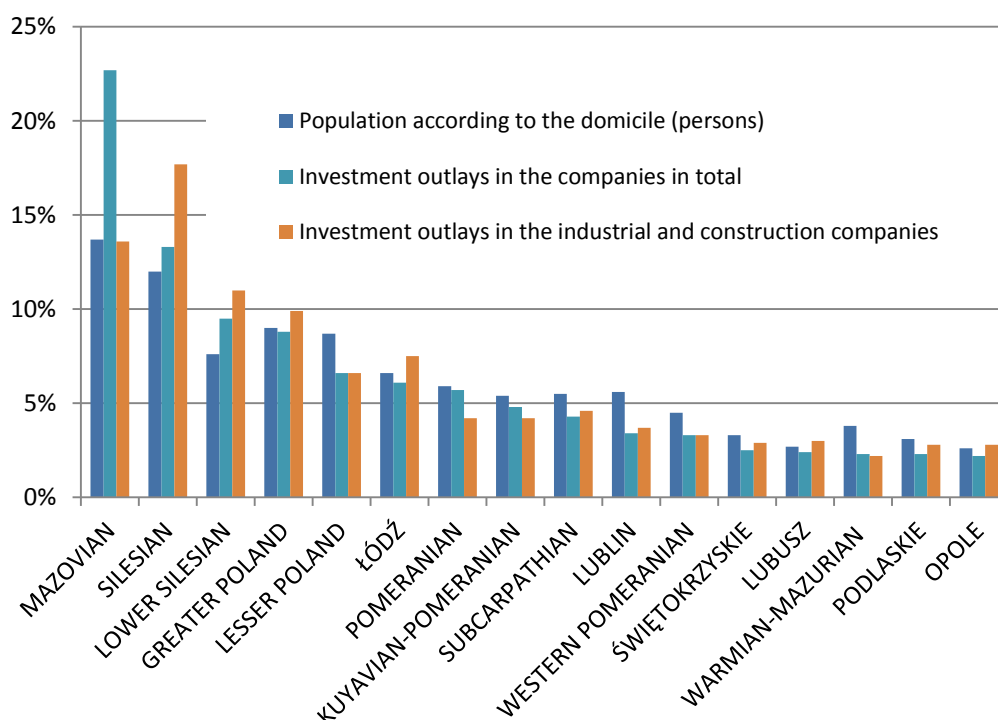
## 2. Region's rank in terms of investment attractiveness in Poland and in the European Union

Opole voivodship is characterised by low level of overall investment attractiveness, which is indicated by the high rank (class E) according to the main potential investment attractiveness index calculated for the whole regional economy PAI 2\_GN (see Chart 1 in the Appendix). The region was also ranked relatively low in terms of potential investment attractiveness calculated with use of PAI2.<sup>2</sup>

Investment attractiveness can also be evaluated on the basis of indices of real investment attractiveness (RAI), which are based on microclimates such as: return on tangible assets, labour productivity, self-financing of self-government territorial units and investment outlays. The region was ranked above the average in terms of RAI indices for and professional, scientific and technical activities (class C) - see Table 2 in the Appendix.

Potential and real investment attractiveness is reflected in the decisions of investors on business location. This is shown in Chart 1.

**Chart 1. Regional structure of investment outlays in the companies in 2011 in comparison with the share in the country's population**



Note: these are the most up-to-date data.

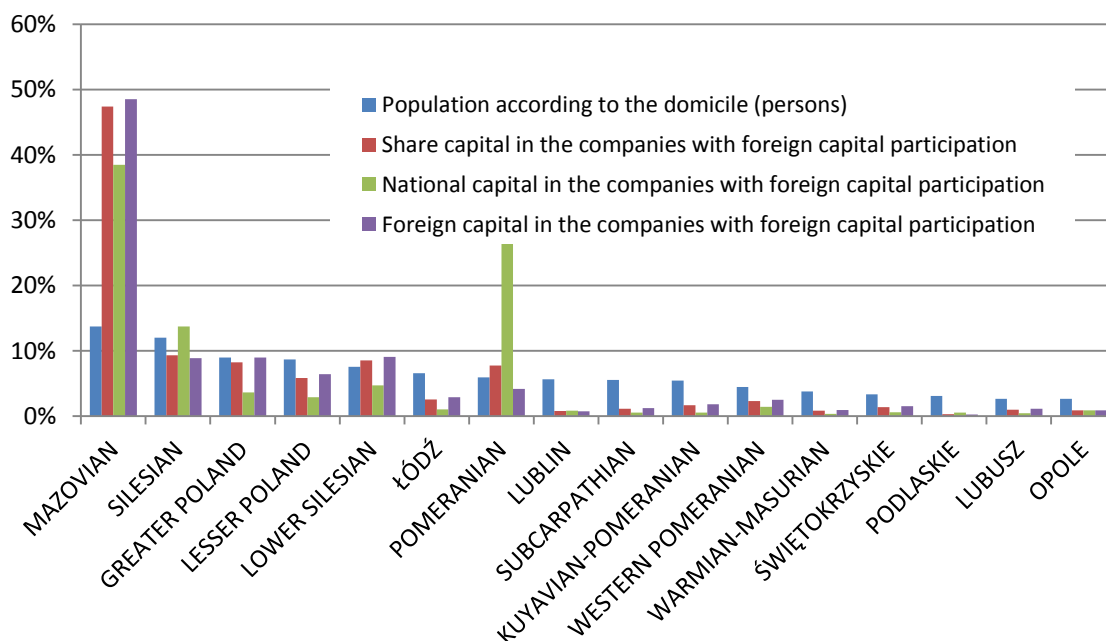
Source: Authors on the basis of the Local Data Bank (downloaded 13 November 2013).

<sup>2</sup> Section C – manufacturing industry, section G – trade and repair, section I – hotels and restaurants, section M – professional, scientific and technical activities. Methodological description of calculation of investment attractiveness of Polish regions, counties and communes can be found on the website of Institute of Entrepreneurship, Collegium of Business and Administration, Warsaw School of Economics: <http://kolegia.sgh.waw.pl/pl/KNoP/struktura/IP/publikacje>

In 2010 Opole region took the 16<sup>th</sup> place when it comes to the investment outlays in companies (2.2% of its total value in all voivodships). This is too little considering the fact that the voivodship's share in the total population is 2.6% and does not apply to investment in industrial and construction companies (2.8% of total investment outlays in this kind of companies for Poland).

Region's location at the border of the country and membership in Euroregions create a chance of growth for foreign investment absorption. In the view of data on accumulated share capital in the companies with foreign capital participation it has to be stated, though, that this chance is not sufficiently used - see Chart 2.

**Chart 2. Regional structure of capital in the companies with foreign capital participation in comparison with a share in population**

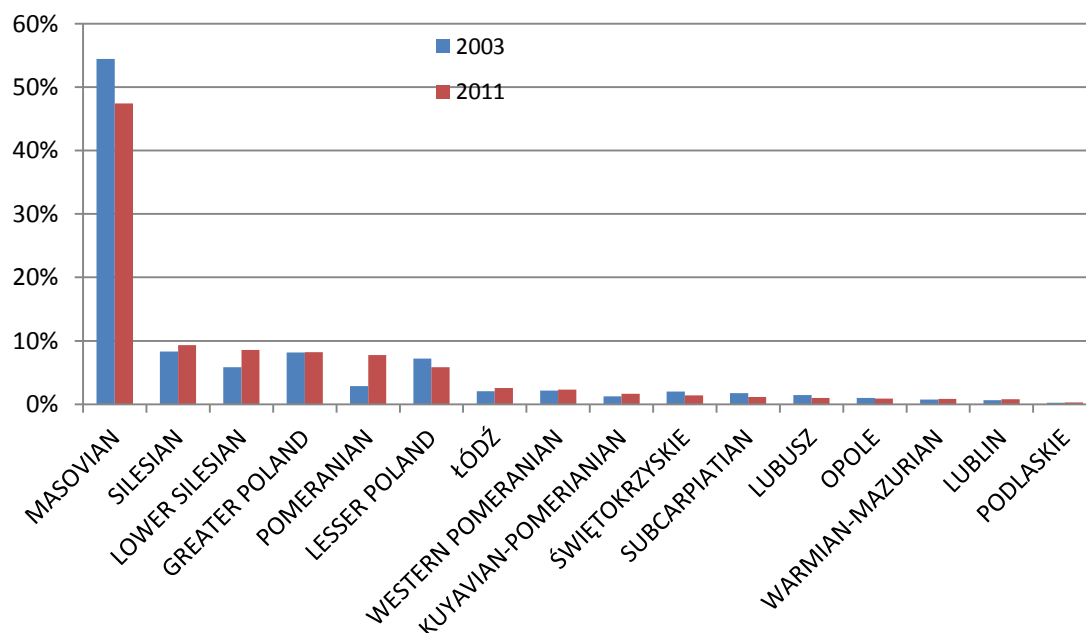


Note: These are the most up-to-date data.

Source: Authors on the basis of the Local Data Bank (downloaded 13 November 2013).

Although in 2011 the share of Opole region in the country's population reached 2.6%, the accumulated share capital in the companies with foreign capital in all analysed sectors is merely 0.9% of their national level. In the years 2003-2011 the weak competitive position on direct foreign investments market decreased slightly from 0.98% to 0.87% - see Chart 3.

**Chart 3. Regional competitive rank in terms of investments with foreign capital participation according to the value of share capital in the companies with foreign capital participation in 2003 and 2011 (% of total value for Poland)**



Source: Authors on the basis of the Local Data Bank (downloaded 13 November 2013).

An opportunity for Opole voivodship might be investment sites thoroughly prepared by self-government territorial units, utilizing location's advantages.

Opole voivodship is concerned as a potential business localization in comparison with the other European regions. When it comes to innovativeness, market and human capital factors, the voivodship took the 246<sup>th</sup> place of 270 regions in the EU and was ranked Class F – see Table 2 in the Appendix.

Opole voivodship has competitive advantage when it comes to human capital, ranked class C. Despite its low rank it still can compete with lower ranked regions such as: **in Italy:** Basilicata, Calabria; **in Portugal:** Norte, Alentejo, Região Autónoma dos Açores and Centro (PT); **in Slovakia:** Stredné Slovensko, Východné Slovensko; **in Greece:** Peloponnisos; **in Romania:** Vest, Nord-Vest, Centru, Sud-Est, Sud-Vest Oltenia, Nord-Est and Sud - Muntenia; **in Hungary:** Dél-Alföld; Észak-Alföld; **in Bulgaria:** Severen tsentralen, Yugoiztochen, Yuzhen tsentralen and Severozapaden.



### 3. Internal diversification of regional investment attractiveness

#### Counties

The most attractive county in Opole voivodship is Opole which was ranked Class A for all the analysed sections of national economy – see Table 2.

**Table 2. Potential investment attractiveness of counties of Mazovian voivodship for the national economy and selected sections**

County	PAII_GN	PAII_GN	PAII_C	PAII_G	PAII_I	PAII_M
Opole	0.337	A	A	A	A	A
Kędzierzyn-Koźle	0.255	C	C	D	D	C
Krapkowice	0.254	C	C	C	C	C
Brzeg	0.243	C	C	C	D	C

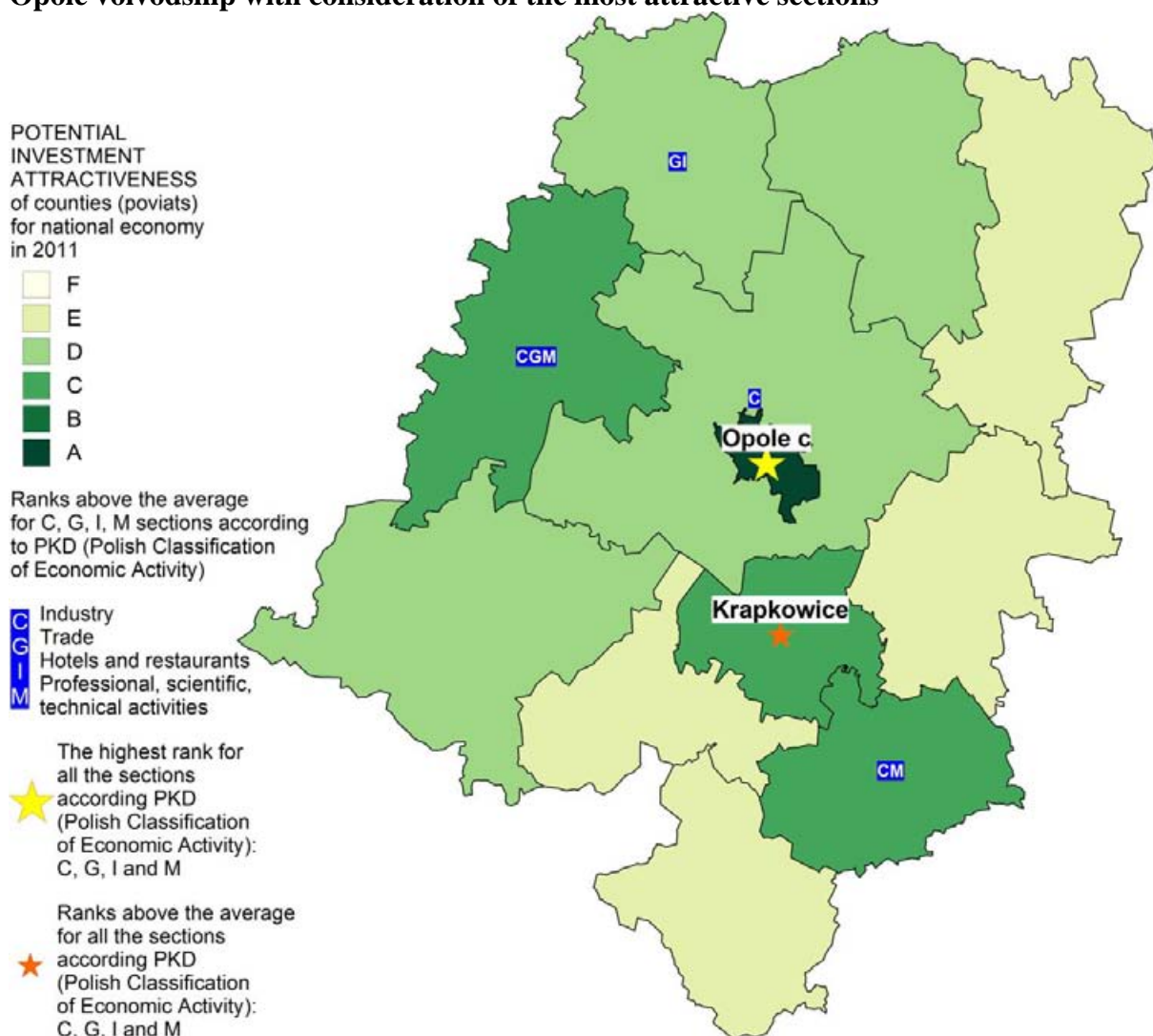
Source: Authors' own calculations.

In reference to the sections mentioned below the following counties should be additionally distinguished (all of them are land counties):

- Kędzierzyn-Koźle, Krapkowice, Brzeg, Opole (Class C) for section C,
- Krapkowice, Brzeg, Namysłów (Class C) for section G,
- Krapkowice ( Class C) for section I and Kędzierzyn-Koźle, Krapkowice, Brzeg for section M.

Synthetic evaluation of potential investment attractiveness of counties of Opole voivodship is presented in Chart 4.

**Chart 4. Spatial diversification of potential investment attractiveness of counties of Opole voivodship with consideration of the most attractive sections**



Source: Authors' own materials.

Note: "c" stands for city county.

### Communes

Like counties, the Opole region communes are also very much diversified in terms of investment attractiveness. The highest ranked communes are: Brzeg (1), Skarbimierz (2), Namysłów (3), Kędzierzyn-Koźle (1), Zdzeszowice (3), Dobrzeń Wielki (2), Tułowice (2), Opole (1). It is also reflected in their high ranks (class A or B) for all the analysed sections – see Table 3.

**Table 3. Potential investment attractiveness of communes of Opole voivodship for the national economy and selected sections**

Commune	PAI1_GN	PAI1_GN	PAI1_C	PAI1_G	PAI1_I	PAI1_M
Brzeg (1)	0.275	A	A	A	B	A
Opole (1)	0.256	A	A	A	A	A
Kędzierzyn-Koźle (1)	0.252	A	A	A	A	A
Zdzieszowice (3)	0.241	A	A	A	C	A
Tułowice (2)	0.223	A	A	B	B	B
Namysłów (3)	0.223	A	A	A	B	A
Skarbimierz (2)	0.221	A	A	A	C	B
Dobrzeń Wielki (2)	0.218	A	A	A	B	A
Nysa (3)	0.215	B	B	B	D	A
Gogolin (3)	0.215	B	A	A	A	B
Kluczbork (3)	0.211	B	B	B	C	A
Chrzastowice (2)	0.209	B	B	B	B	B
Krapkowice (3)	0.208	B	B	B	C	A
Prudnik (3)	0.207	B	B	B	D	B
Bierawa (2)	0.205	B	B	B	B	B
Niemodlin (3)	0.200	B	B	C	B	C
Ujazd (3)	0.198	B	B	B	C	C

(1) – urban commune, (2) – rural commune, (3) – urban-rural commune

Source: Authors' own calculations.

Attractive communes are also the class B communes according to the PAI1\_GN index. Among these communes are: Kluczbork (3), Nysa (3), Prudnik (3), Bierawa (2), Gogolin (3), Krapkowice (3), Chrzastowice (2), Niemodlin (3), Ujazd (3). The location-specific advantages are also universal for these communes, which makes them attractive for all kinds of business activity concerned in this research.

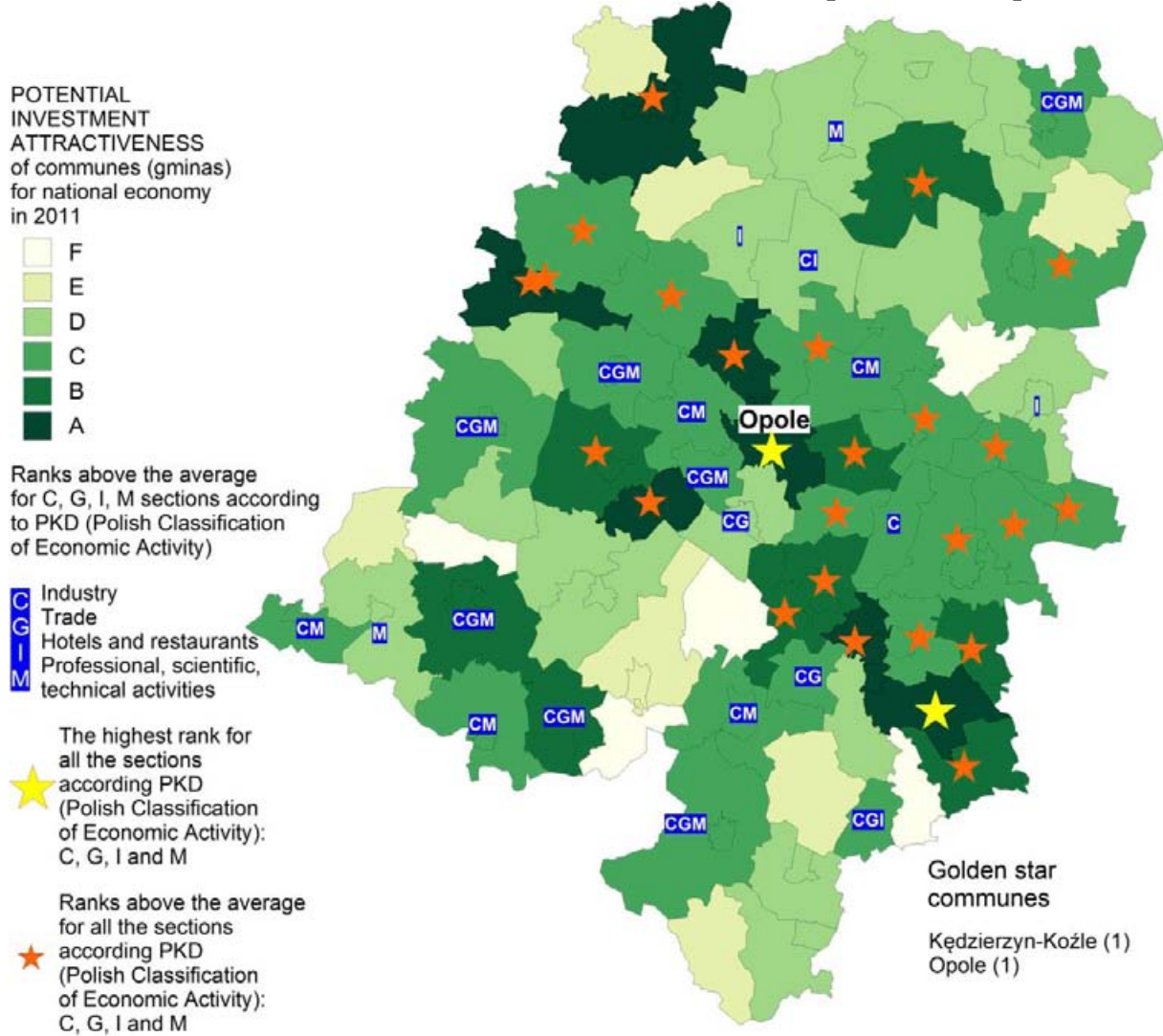
However, this characteristic cannot be found in all of the communes that belong to Class C. Only a few Class C communes fulfil this condition: Miedziana Góra (2), Zagnańsk (2), Małogoszcz (3) – see Table 3 in the Appendix.

In reference to the particular sections taken into consideration in this research the following communes of Class C should be distinguished:

- Grodków (3), Lewin Brzeg (3), Głucholazy (3), Paczków (3), Głogówek (3), Głubczyce (3), Walce (2), Olesno (3), Praszka (3), Dąbrowa (2), Murów (2), Ozimek (3), Prószków (3), Turawa (2), Izbicko (2), Jemielnica (2), Kolonowskie (3), Leśnica (3), Strzelce Opolskie (3) - for section C,
- Grodków (3), Lewin Brzeg (3), Głubczyce (3), Polska Cerekiew (2), Walce (2), Olesno (3), Praszka (3), Komprachcice (2), Niemodlin (3), Ozimek (3), Popielów (2), Prószków (3), Jemielnica (2), Kolonowskie (3), Leśnica (3) - for section G,
- Skarbimierz (2), Lubsza (2), Kluczbork (3), Polska Cerekiew (2), Krapkowice (3), Zdzieszowice (3), Dobrodzień (3), Łubniany (2), Murów (2), Tarnów Opolski (2), Jemielnica (2), Kolonowskie (3), Leśnica (3), Ujazd (3), Zawadzkie (3) - for section I,
- Grodków (3), Lewin Brzeg (3), Lubsza (2), Wołczyn (3), Głucholazy (3), Otmuchów (3), Paczków (3), Głogówek (3), Głubczyce (3), Praszka (3), Dąbrowa (2), Łubniany (2),

Niemodlin (3), Popielów (2), Turawa (2), Jemielnica (2), Kolonowskie (3), Leśnica (3), Strzelce Opolskie (3), Ujazd (3), Zawadzkie (3) - for section M.

Synthetic evaluation of potential investment attractiveness of communes of Opole voivodship is presented in Chart 5.

**Chart 5. Potential investment attractiveness of communes of Opole voivodship**

Source: Authors' own calculations.

#### 4. Voivodship's institutional support for investors and entrepreneurs

The development of business supporting institutions in a region is a vital component of its investment attractiveness. The institutions that support entrepreneurship, pro-investment solutions, research commercialization and enterprises' innovativeness are of special importance. Among the voivodship's business-supporting institutions that influence the voivodship's economic development the following ones should be mentioned (excluding scientific research institutions):

- chambers of commerce: Izba Gospodarcza „Śląsk” in Opole, Opolska Izba Gospodarcza, Nyska Regionalna Izba Gospodarcza, Izba Rzemieślnicza in Opole,
- associations (including business centres): Stowarzyszenie „Promocja Przedsiębiorczości” in Opole, Opolskie Centrum Rozwoju Gospodarki, Namysłowskie Stowarzyszenie Inicjatyw Gospodarczych, Regionalne Centrum Rozwoju Edukacji in Opole, Opolskie Centrum Transferu Innowacji, Ośrodek Innowacji NOT in Opole, Regionalne Centrum Transferu Wiedzy i Technologii Innowacyjnych przy Państwowej Wyższej Szkole Zawodowej in Nysa, Opolskie Centrum Demokracji Lokalnej, Wojewódzki Zakład Doskonalenia Zawodowego in Opole, Fundacja Rozwoju Śląska oraz Wspierania Inicjatyw Lokalnych in Opole, Stowarzyszenie Opole Klub Biznesu, Stowarzyszenie Nowoczesna Opolszczyzna, Opolska Loża Business Centre Club,
- business incubators: Akademicki Inkubator Przedsiębiorczości przy Politechnice Opolskiej, Opolski Inkubator Przedsiębiorczości przy Stowarzyszeniu „Promocja Przedsiębiorczości”, Akademicki Inkubator Przedsiębiorczości Uniwersytetu Opolskiego, Kluczborski Inkubator Przedsiębiorczości,
- technology parks, science parks, industrial parks: Kędzierzyńsko – Kozielski Park Przemysłowy, Park Naukowo- Technologiczny in Opole, Opolski Park Naukowo- Technologiczny, Park Technologiczno - Innowacyjny Sp. z o.o. Tarnów Opolski,
- consulting centres (including personal consulting and agricultural consulting): Opole Ośrodek Doradztwa Rolniczego in Łosiów, Manpower w Brzegu, Adecco Opole, Deloitte Biuro in Opole, Agencja Pracy OTTO in Opole,
- financial institutions (guarantee funds): Fundusz Mikro Sp. z o.o.– Przedstawicielstwo Lokalne in Opole,
- others: Centrum Współpracy Polska – Chiny Instytut Konfucjusza in Opole, Politechnika Opolska.

**Association for Entrepreneurship Promotion** (*Stowarzyszenie „Promocja Przedsiębiorczości”*) in Opole works against unemployment and its effects, i.a. by setting micro-, small and medium enterprises. A business incubator is operating as a part of the association which offers office space, storage space and workshops rent on preferential conditions. It also offers business support services such as promotion, legal, financial and marketing advice. The association runs an Entrepreneurship Development Fund which grants loans and capital support or financial support other than loans for the unemployed. The fund also offers support at preparing loan applications for business activities. The project „Opolska Kuźnia Przedsiębiorczości 2” offers free of charge consulting and trainings on legal aspects of running business activity by physical persons, on labour law, finance and accounting, setting and running a business. The members of the programs can also apply for non-returnable funds (paid monthly for 6 months). Enterprise Europe Network in Opole also works at the association, which offers services for SMEs. Its offer includes personal counselling, thematic meetings, seminars, trainings, European Club, broker meetings, technological audit, negotiations support, looking for cooperation partners (including access to databases of technological offers and companies profiles – Bulletin Board Service (BBS) and business



cooperation - Business Co-operation Database (BCD)). ([www.spp.opole.pl/](http://www.spp.opole.pl/), 03 November 2013)

**Opole Centre for Economy Development** (*Opolskie Centrum Rozwoju Gospodarki*) actively takes part in promotion and activation of entrepreneurship, especially when it comes to creation science, technology and industry parks, clusters, local offices for economic development, entrepreneurship and innovativeness centres. Companies from Opole voivodship interested in cooperation with foreign trade partners and investors can free of charge take use the centre's experts help at establishing contacts. The centre is running Opening Regional Innovation System in the Opolskie Voivodship which offers free of charge services for micro-, small and medium enterprises of innovation partner, such as: analysing of company's innovativeness potential and preparing report including recommendations that should help the company to increase its innovativeness. The report contains potential directions for company's development and possible ways of getting support for the company (including raising funds and donations for company development). A pilot project is being run within the project, concentrating on matching companies from Lower Austria with companies from Opole region to start cooperation to exchange good practices, innovative solutions, technologies and patents. Investors and Exporters Service Centre operates within the Opole Centre for Economy Development which grants access to a database of investment sites, industrial facilities and tourist facilities in the region. The centre's tasks are i.a.: promotion of communes' and counties; investment offers, informing on investment rules and conditions, legal acts and procedures connected with making investments and running business, organizing meetings of investors and representatives of local self-governments, intermediary in establishing contacts between business partners, organization of trainings aimed at increasing investors and entrepreneurs service quality and promoting exports. (<http://ocrg.opolskie.pl/>, 03 November 2013)

**Academic Entrepreneurship Incubator at Opole Institute of Technology** (*Akademicki Inkubator Przedsiębiorczości przy Politechnice Opolskiej*) rents space for new companies on preferential conditions and offers consulting services and trainings for firms. The incubator operates a database of innovations, initiatives and internship offers for graduates of Opole Institute of Technology and region's entrepreneurs. The incubator also operates a database of abstracts of bachelor, master, doctoral and habilitation thesis of students and staff of Opole Institute of Technology as well as a database of proposal of thesis subjects submitted by businesses and institutions, which – after approval – are presented to students and research staff. The initiative “We don't write thesis to be put away on a shelf” aims to present research results according to the demand of businesses and regional economy as well as to facilitate practical use of knowledge acquired during the course of studies. ([www.inkubator.po.opole.pl/](http://www.inkubator.po.opole.pl/), 03 November 2013).

**Kędzierzyn-Koźle Industrial Park LLC** (*Kędzierzyńsko-Kozielsko Park Przemysłowy Sp. z o.o.*) offers support at investment process such as: preparation of investment offers (investment sites, office space and production halls), visits and meetings arrangement, looking for trade partners and suppliers, support at administration processes (like getting permissions), advisory on public help. The park offers investment sites (with infrastructure), offices, production halls and storage space for rent. ([www.kkpp.pl/](http://www.kkpp.pl/), 03 November 2013)

**Micro Fund LLC in Opole** (*Fundusz Mikro Sp. z o.o. – Przedstawicielstwo Lokalne in Opole*) aims at promoting loans for micro- and small enterprises. The loans offered by the fund are aimed at financing business activities, the amount of the loan is dependent on the

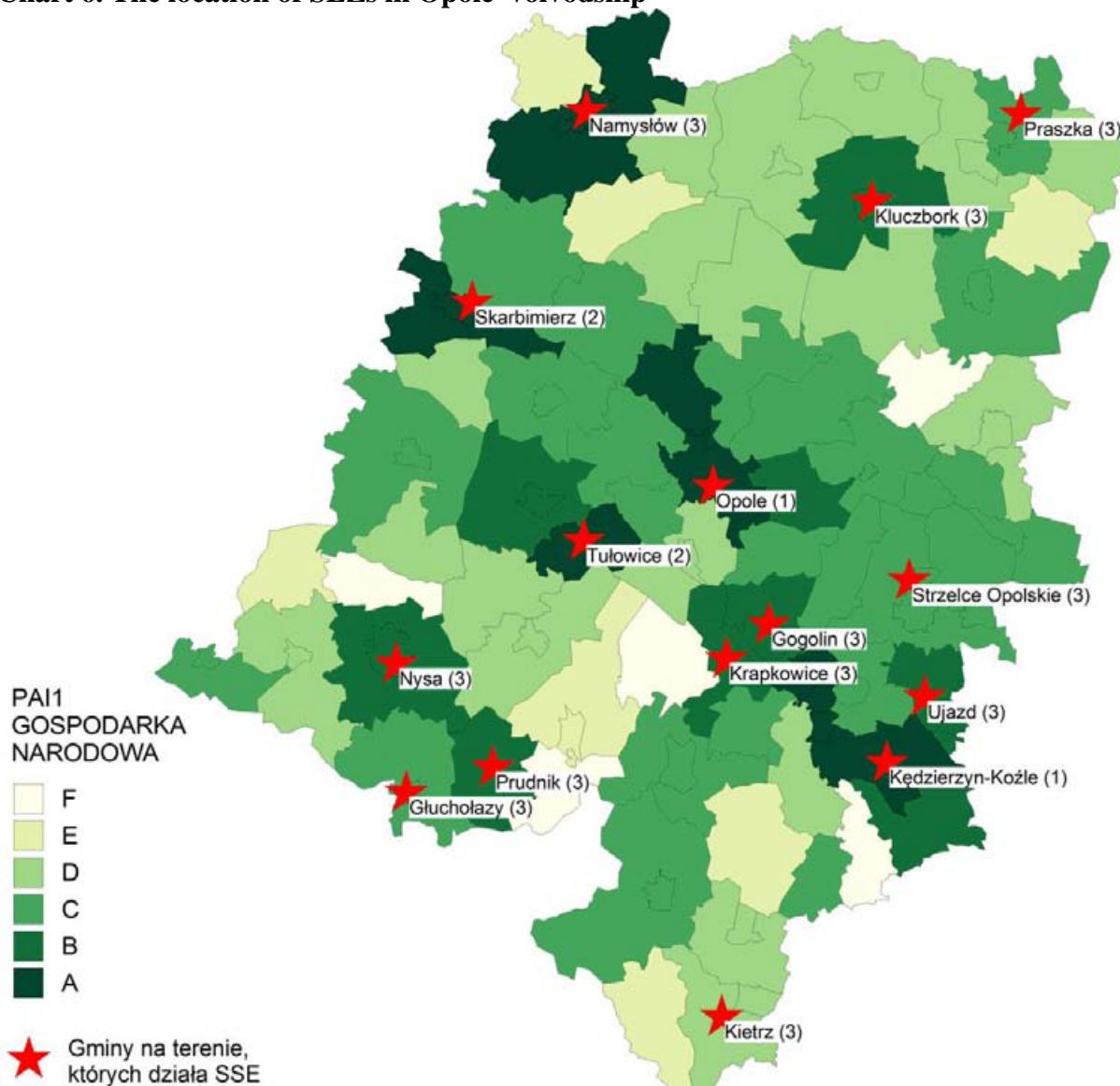
present and predicted financial-economic condition of the customer (up to PLN 50,000). The fund also cooperates with banks to the benefit of companies that do not meet banks' loan requirements.

(<http://www.funduszmikro.pl/>, 03 November 2013).

### Special economic zones in Opole voivodship – effects

There are 3 special economic zones (SEZs) in Opole voivodship: Katowice SEZ, Wałbrzych SEZ and Starachowice SEZ. At the end of 2012 the areas of the SEZs were parts of 2 cities and 14 communes – see Chart 6.

**Chart 6. The location of SEZs in Opole voivodship**



Note: Red stars indicate communes with SEZ subzones within their areas.

Source: Authors' own calculations.

The first SEZ areas were brought into life in 1996 in Strzelce Opolskie. The investment outlays made by SEZ companies operating in the communes of Opole region by the end of 2012 amounted to PLN 2.12 billion, which made 3% of all investment outlays made



in the Polish SEZs. In the same time the SEZ companies in the region created 2.4 thousand new jobs which made 1% of all jobs created in the Polish SEZs (see Table 4).

**Table 4. Effects of special economic zone functioning at the end of 2012**

SEZ / Subzone	County, Commune	Leading industries (at least 20% share of revenue or employment)	Cumulated capital expenditure in million PLN (end of 2012)	Jobs number (end of 2012)
Wałbrzych / Skarbimierz	Brzeg, Skarbimierz (2)	food products	1,301.71	1,116
Wałbrzych / Kluczbork	Kluczbork, Kluczbork (3)	fabricated metal products (except machinery and equipment)	10.53	11
Wałbrzych / Namysłów	Namysłów, Namysłów (3)	no investors yet		
Katowice / Gliwice	Nysa, Głucholazy (3)	paper and paper products	47.42	19
Wałbrzych / Nysa	Nysa, Nysa (3)	wood, wood and cork products, except furniture; articles of straw and plaiting materials, rubber and plastic products,	41.12	140
Wałbrzych / Prudnik	Prudnik, Prudnik (3)	machinery and equipment n.e.c.	7.86	20
Katowice / Gliwice	Głubczyce, Kietrz (3)	no investors yet		
Katowice / Gliwice	Kędzierzyn-Koźle, Kędzierzyn-Koźle (1)	no investors yet		
Katowice / Gliwice	Krapkowie, Gogolin (3)	no investors yet		
Katowice / Gliwice	Krapkowie, Krapkowie (3)	paper and paper products	198.89	54
Katowice / Gliwice	Olesno, Olesno (3)	no investors yet		
Wałbrzych / Praszka	Olesno, Praszka (3)	no investors yet		
Starachowice / Tułowice	Opole, Tułowice (2)	rubber and plastic products, fabricated metal products (except machinery and equipment),	68.66	534
Katowice / Gliwice	Strzelce Opolskie, Strzelce Opolskie (3)	wood, wood and cork products, except furniture; articles of straw and plaiting materials	410.01	280
Katowice / Ujazd	Strzelce Opolskie, Ujazd (2)	No investors yet		
Wałbrzych / Opole	Opole (city), Opole (1)	fabricated metal products (except machinery and equipment)	35.28	205

Source: Authors' own calculations based on the Ministry of Economy data.

The largest investments in the voivodship have been completed in Skarbimierz, where Cadbury Polska Sp. z o. o. (THE NETHERLANDS, producer of chewing gums), Cadbury Sp. z o. o. (THE NETHERLANDS, producer of chocolate products), Keiper Polska Sp. z o.o. (Germany, car seats elements and constructions), FPS Polska Sp. z o.o. (Germany, metal packaging).

The SSE development plans assume that the voivodship should attract the following investments:

- from advanced technology industries and data processing services – in Katowice SEZ,

- from food-processing, chemical, energy, mineral resources, machinery, metal and furniture industries – in Starachowice SEZ,
- related to logistics and traditional voivodship's industries – furniture and wood branches – in Wałbrzych SEZ.

## **'A' Commune**

Student Scientific Organisation for Entrepreneurship and Regional Analyses affiliated to the Institute of Enterprise of the Warsaw School of Economics, has again published the results of its research into the quality of investor assistance offered by the communal authorities.

The subject of this qualitative research of investment attractiveness is evaluation of the websites and evaluation of e-mail contact with communal authorities in two languages: Polish and English. The effect of this research is a ranking 'A' Commune, which is thought to distinguish best performing self-government territorial units in terms of the use of means of electronic communication to provide assistance to the customers. The research is carried out with the use of mystery client method. In this year's edition all communes belonging to Class A and B according to the PAI 2011 index were subject to the evaluation.

As a result 90 communes were distinguished, of which 2 are situated in Opole voivodship (see Table 5).

**Table 5. Communes in Opole voivodship distinguished as 'A' Communes**

Place in the ranking (for the whole country)	Commune	Evaluation of websites (score)	Evaluation of e-mail contact in Polish (score)	Evaluation of e-mail contact in English (score)	Sum
37	Nysa (3)	15.0	9.0	0.0	24.0
76	Kluczbork (3)	11.0	9.0	0.0	20.0

Source: Authors' own calculations.

The websites of Nysa and Kluczbork distinguish themselves by their presence in social media. What is more, Nysa in its reply to the e-mail questions sent a leaflet containing information on running a business and invited the investor to personal contact.

## 5. Region's strengths and weaknesses

Opole voivodship has its unique character and clear specificity which influences its strengths and weaknesses. If divided according to the main factors of location and location conditions classified into microclimates that influence potential and real investment attractiveness, they can be grouped into strengths (microclimates with ranking A, B or C) and weaknesses (microclimates with ranking D, E or F) – see Table 6.

**Table 6. Strengths and weaknesses of Opole voivodship**

<b>Strengths of the region according to the microclimates by the Institute of Enterprise of the Warsaw School of Economics</b>	<b>Weaknesses of the region according to the microclimates by the Institute of Enterprise of the Warsaw School of Economics</b>
<b>National economy</b>	
Microclimate Human Resources Class C Social Microclimate Class C Productivity of enterprises Class C Profitability of enterprises Class B Self-financing of self-government units Class B	Microclimate Technical Infrastructure Class E Microclimate Social Infrastructure Class D Market Microclimate Class D Microclimate Administration/Government Class E Microclimate Innovativeness Class F Returns on tangible assets Class F Investment outlays Class F
<b>Capital-intensive industry</b>	
Microclimate Social Infrastructure Class C Social Microclimate Class A Productivity of enterprises Class C Self-financing of self-government units Class B	Microclimate Human Resources Class E Microclimate Technical Infrastructure Class D Market Microclimate Class D Microclimate Administration/Government Class E Microclimate Innovativeness Class F Returns on tangible assets Class F Investment outlays Class E
<b>Labour-intensive industry</b>	
Microclimate Human Resources Class B Microclimate Social Infrastructure Class B Productivity of enterprises Class C Self-financing of self-government units Class B	Microclimate Technical Infrastructure Class E Social Microclimate Class D Market Microclimate Class D Microclimate Administration/Government Class D Returns on tangible assets Class F Investment outlays Class E
<b>Trade</b>	
Social Microclimate Class B Self-financing of self-government units Class B	Microclimate Human Resources Class D Microclimate Technical Infrastructure Class D Microclimate Social Infrastructure Class F Market Microclimate Class D Microclimate Administration/Government Class D Returns on tangible assets Class E Productivity of enterprises Class D Investment outlays Class E
<b>Tourism</b>	
Microclimate Social Infrastructure Class B Social Microclimate Class A	Microclimate Human Resources Class D Microclimate Technical Infrastructure Class E

Self-financing of self-government units Class B	Market Microclimate Class E Microclimate Administration/Government Class E Returns on tangible assets Class D Productivity of enterprises Class E Investment outlays Class F
<b>Professional, scientific and technical activities</b>	
Microclimate Social Infrastructure Class B Social Microclimate Class C Returns on tangible assets Class A Productivity of enterprises Class B Self-financing of self-government units Class B Investment outlays Class C	Microclimate Human Resources Class D Microclimate Technical Infrastructure Class E Market Microclimate Class D Microclimate Administration/Government Class D Microclimate Innovativeness Class F

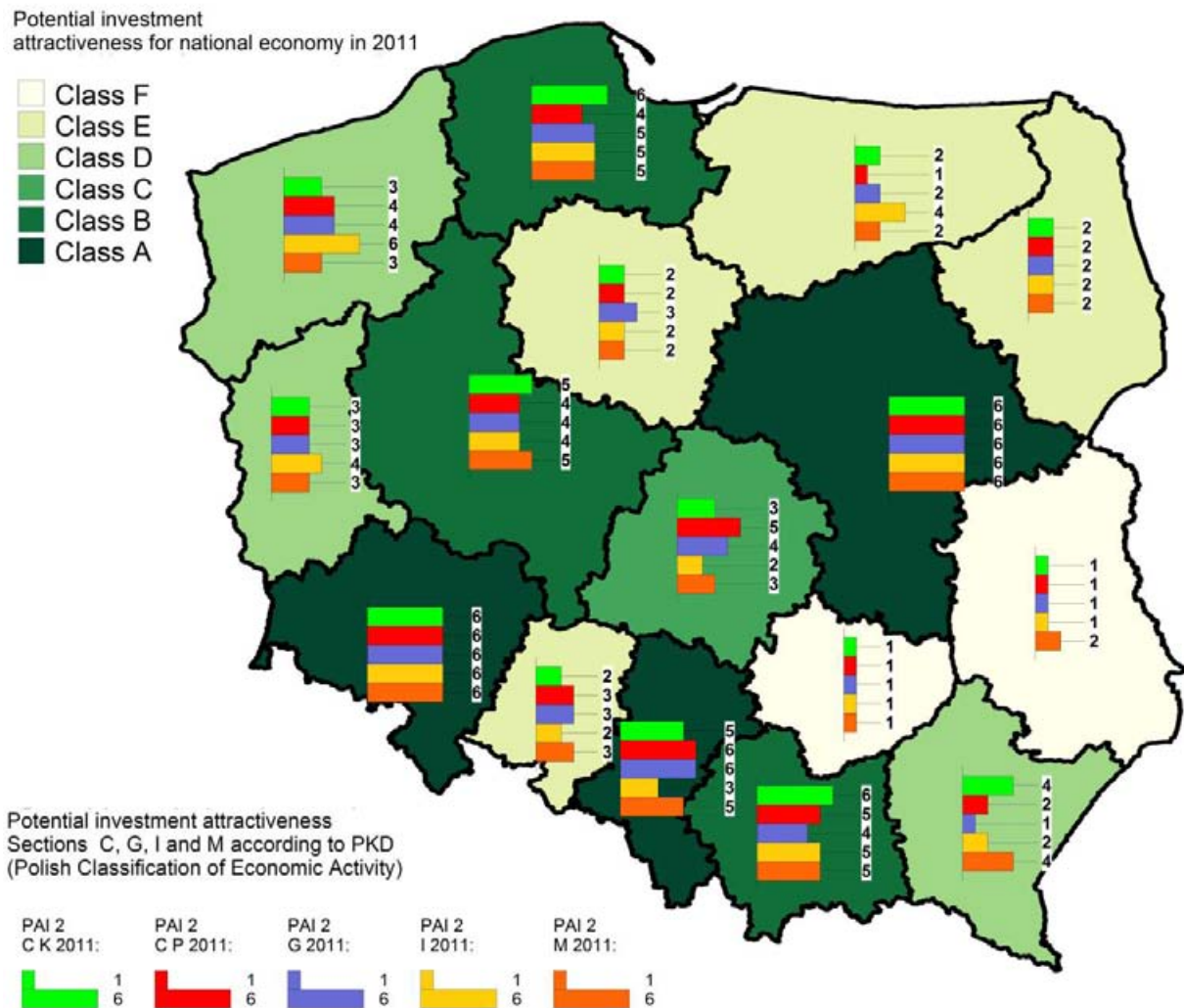
Source: Authors on the basis of the results of research of the Institute of Enterprise of the Warsaw School of Economics.

## Summary

The engines of economic development of Lower Silesian voivodship are the counties: Opole (city) Kędzierzyn-Koźle, Krapkowice and Brzeg as well as the special economic zones in the region.

Opole voivodship has predispositions to **create interregional clusters**, especially basing on competitive medium and big enterprises in sectors such as: manufacture of rubber and plastic products, manufacture of machinery and equipment n.e.c., manufacture of grain mill products, starch and starch products, manufacture of articles of concrete, cement and plaster, manufacture of structural metal products. It can also develop **intelligent specializations** based on competitive big and medium enterprises in **the medium high-tech sectors** such as manufacture of machinery and equipment n.e.c., and in the **low-tech sectors**: manufacture of rubber and plastic products. The voivodship is also characterised by competitiveness of the **knowledge-based services sectors** such as architecture and engineering activities and technical research and analyses.

## APPENDIX

**Chart 1. Potential investment attractiveness of Polish voivodships by basic sections of the national economy**

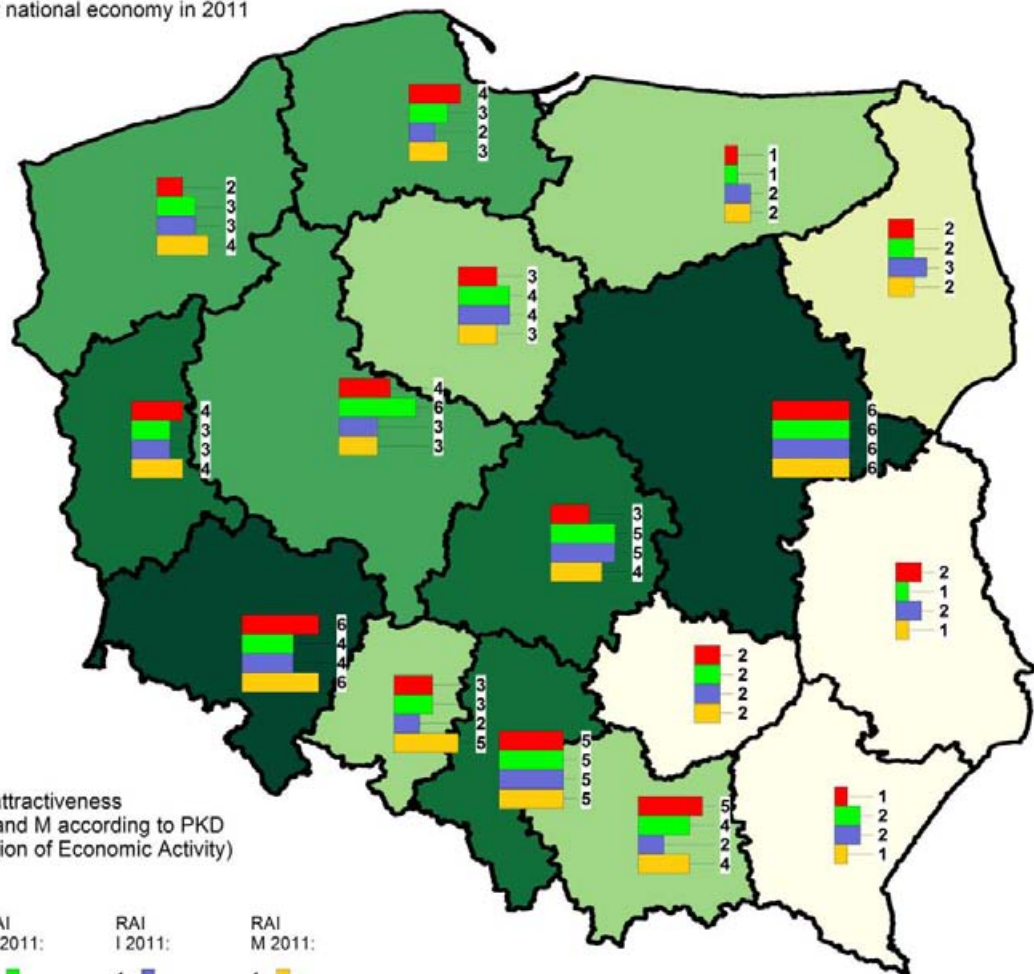
Source: Authors' own materials based on the research.

**Chart 2. Real investment attractiveness of Polish voivodships by basic sections of the national economy**

Real investment attractiveness for national economy in 2011

- Class F
- Class E
- Class D
- Class C
- Class B
- Class A

Real investment attractiveness  
Sections C, G, I and M according to PKD  
(Polish Classification of Economic Activity)



Source: Authors' own materials based on the research.



**Table 1. List of investment attractiveness indices for voivodships**

Voivodship	LOWER SILESIAN	KUYAVIAN-POMERANIAN	LUBLIN	LUBUSZ	ŁÓDŹ	LESSER POLAND	MAZOVIAN	OPOLE	SUBCARPATHIAN	PODLASKIE	POMERANIAN	SILESIAN	ŚWIĘTOKRZYSKIE	WARMIAN-MASURIAN	GREATER POLAND	WESTERN POMERANIAN
PAI1 GN	A	D	F	D	D	C	A	E	D	E	B	A	F	D	B	B
PAI2 GN	A	E	F	D	C	B	A	E	D	E	B	A	F	E	B	D
RAI GN	A	D	F	B	B	D	A	D	F	E	C	B	F	D	C	C
PAI1 C	A	D	F	D	C	C	A	D	E	F	B	A	F	E	B	B
PAI2 C CAPITAL	A	E	F	D	D	A	A	E	C	E	A	B	F	E	B	D
PAI2 C LABOUR	A	E	F	D	B	B	A	D	E	E	C	A	F	F	C	C
RAI C	A	D	E	C	D	B	A	D	F	E	C	B	E	F	C	E
PAI1 G	A	F	F	B	E	B	A	D	D	F	A	C	F	C	C	B
PAI2 G	A	D	F	D	C	C	A	D	F	E	B	A	F	E	C	C
RAI G	C	C	F	D	B	C	A	D	E	E	D	B	E	F	A	D
PAI1 I	B	E	F	C	E	B	A	E	E	E	A	C	F	C	C	A
PAI2 I	A	E	F	C	E	B	A	E	E	E	B	D	F	C	C	A
RAI I	C	C	E	D	B	E	A	E	E	D	E	B	E	E	D	D
PAI1 M	A	E	F	D	D	C	A	D	D	E	B	A	F	D	B	B
PAI2 M	A	E	E	D	D	B	A	D	C	E	B	B	F	E	B	D
RAI M	A	D	F	C	C	C	A	B	F	E	D	B	E	E	D	C

Source: Authors on the basis of the results of statutory research carried out under the guidance of H. Godlewska-Majkowska.

**Table 2. Potential investment attractiveness of Polish voivodships according to the EU potential investment attractiveness index PAI \_UE in 2011**

	Microclimate Human Capital	Microclimate Market	Microclimate Innovativeness	Composite index
Lower Silesian	B	D	D	D
Kuyavian-Pomeranian	B	E	F	E
Lublin	B	F	E	F
Lubusz	A	F	E	E
Łódź	A	E	E	E
Lesser Poland	C	E	E	E
Mazovian	A	C	B	B
Opole	C	F	E	F
Subcarpathian	C	F	E	F
Podlaskie	B	F	E	F
Pomeranian	B	D	D	D
Silesian	B	D	E	D
Świętokrzyskie	A	F	F	F
Warmian-Masurian	B	F	E	F
Greater Poland	A	E	E	E
Western Pomeranian	C	E	E	E



Source: Authors' own materials based on calculations of H. Godlewska-Majkowska and M. Czernecki, made in the course of statutory research *Investment attractiveness and enterprise localization in the global economy* (the team: H. Godlewska-Majkowska, Ph.D., university professor at the Warsaw School of Economics – head of research, P. Bartoszczuk, Ph.D., P. Zarębski, Ph.D., M. Typa, M.A., M. Czernecki, M.A.).

**Table 3. Potential investment attractiveness of counties of Opole voivodship for the national economy and selected sections**

County	PAI1_GN	PAI1_GN_classes	PAI1_C_classes	PAI1_G_classes	PAI1_I_classes	PAI1_M_classes
Opole	0.337	A	A	A	A	A
Kędzierzyn-Koźle	0.255	C	C	D	D	C
Krapkowice	0.254	C	C	C	C	C
Brzeg	0.243	C	C	C	D	C

Source: As in Table 1.

**Table 4. Potential investment attractiveness of communes of Opole voivodship for the national economy and selected sections**

Commune	PAI1_GN	PAI1_GN_classes	PAI1_C_classes	PAI1_G_classes	PAI1_I_classes	PAI1_M_classes
Brzeg (1)	0.275	A	A	A	B	A
Opole (1)	0.256	A	A	A	A	A
Kędzierzyn-Koźle (1)	0.252	A	A	A	A	A
Zdzieszowice (3)	0.241	A	A	A	C	A
Tułowice (2)	0.223	A	A	B	B	B
Namysłów (3)	0.223	A	A	A	B	A
Skarbimierz (2)	0.221	A	A	A	C	B
Dobrzeń Wielki (2)	0.218	A	A	A	B	A
Nysa (3)	0.215	B	B	B	D	A
Gogolin (3)	0.215	B	A	A	A	B
Kluczbork (3)	0.211	B	B	B	C	A
Chrzastowice (2)	0.209	B	B	B	B	B
Krapkowice (3)	0.208	B	B	B	C	A
Prudnik (3)	0.207	B	B	B	D	B
Bierawa (2)	0.205	B	B	B	B	B
Niemodlin (3)	0.200	B	B	C	B	C
Ujazd (3)	0.198	B	B	B	C	C
Komprachcice (2)	0.196	C	B	C	D	B
Tarnów Opolski (2)	0.196	C	B	B	C	B
Popielów (2)	0.196	C	B	C	A	C
Łubniany (2)	0.195	C	B	B	C	C
Lubsza (2)	0.194	C	B	B	C	C
Ozimek (3)	0.194	C	C	C	B	B
Jemielnica (2)	0.193	C	C	C	C	C
Leśnica (3)	0.193	C	C	C	C	C
Zawadzkie (3)	0.192	C	B	B	C	C
Lewin Brzeg (3)	0.191	C	C	C	E	C
Kolonowskie (3)	0.190	C	C	C	C	C
Grodków (3)	0.189	C	C	C	D	C
Olesno (3)	0.188	C	C	C	B	B

Praszka (3)	0.188	C	C	C	D	C
Polska Cerekiew (2)	0.187	C	B	C	C	D
Głubczyce (3)	0.185	C	C	C	D	C
Głucholazy (3)	0.185	C	C	D	D	C
Strzelce Opolskie (3)	0.185	C	C	B	B	C
Paczków (3)	0.184	C	C	D	E	C
Walce (2)	0.183	C	C	C	E	D
Turawa (2)	0.181	C	C	D	D	C
Izbicko (2)	0.180	C	C	D	D	D
Głogówek (3)	0.179	C	C	D	D	C
Dąbrowa (2)	0.178	C	C	D	D	C

Source: As in Table 1.

Note: All the indices in the report have been calculated on the basis on the most up-to-date data from the Regional Data Bank (RDB), 2013.