Impact of investments in special economic zones upon development of poviats in Poland

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Methodological assumptions

Outcome of the research

Conclusions

SEZ impact mechanism

INPUTS

- Establishing SEZs and subzones of SEZs
- Issuing of permits for economic activities in SEZ
- Determination of sub-zones in poviat

ACTIVITIES





 Job Creation in SEZs

OUTPUTS

- Increase in investment in SF7s
- Increase in numer of workers in SEZs





OUTPUTS

- Establishing enterprises in non SF7s areas
- Increase in investment in non SEZs areas
- Increase in numer of workers in non SEZs areas

OUTCOMES







 Decrease in unemployment rate



FINAL **OUTCOMES**

Improvement of regional development



the experimental group

the control group

Experimental group of poviats

Control group of poviats

the experimental group

the control group

<u>should</u>:

- a) identically respond to intervention,
- b) be identically influenced by other external factors and interventions,

Regional state aid map

2000-2006





Warszawa

L: 3

M: 40% S: 50%

NUTS 2 regions whose GDP per capita is below or equal to 45 % of the EU-27 average

NUTS 2 regions whose GDP *per capita* is between or equal to 45 % and 60 % of the EU-27 average

NUTS 2 regions whose GDP per capita is between or equal to 60 % and 75 % of the EU-27 average

	Voivodeships NUTS 2
	<=45% (cat. I)
Experimental group of poviats	45-60% (cat. II)
	60-75% (cat. III)
Control group of poviats	<=45% (cat. I)
	45-60% (cat. II)
	60-75% (cat. III)

the experimental group

the control group

should:

- a) identically respond to intervention,
- b) be identically influenced by other external factors and interventions,
- c) identical when it comes to their characteristics.

	Voivodeships NUTS 2	Poviats (Subregions) NUTS 4
Experimental group of poviats		<=45% (cat. I.1)
	<=45% (cat. I)	45-60% (cat. I.2)
		60-75% (cat. I.3)
		<=45% (cat. II.1)
	45-60% (cat. II)	45-60% (cat. II.2)
		60-75% (cat. II.3)
		<=45% (cat. III.1)
	60-75% (cat. III)	45-60% (cat. III.2)
		60-75% (cat. III.3)
Control group of poviats	<=45% (cat. I)	<=45% (cat. I.1) 45-60% (cat. I.2)
	13.13 (3.11.17)	60-75% (cat. I.3)
	45 60% (cot II)	<=45% (cat. II.1)
	45-60% (cat. II)	45-60% (cat. II.2) 60-75% (cat. II.3)
		<=45% (cat. III.1)
	60-75% (cat. III)	45-60% (cat. III.2)
	55 75 (54th III)	60-75% (cat. I.II3)

the experimental group

the control group

should:

- a) identically respond to intervention,
- b) be identically influenced by other external factors and interventions,
- c) identical when it comes to their characteristics.

Differences in

- a. changes in the experimental group observed in comparison to
- b. changes in the control group

were interpreted as <u>the impact of SEZs businesses (investments)</u> on the development of poviats.

The experimental group

3 subgroups within the experimental group of poviats, where investments in SEZs:

- were not higher than 5% of the total gross value of fixed assets;
- exceeded 5% but were not higher than 20% of the total gross value of fixed assets;
- exceed 20% of the total gross value of fixed assets.

	Voivodeships NUTS 2	Poviats (Subregions) NUTS 4	Invest. Intensity to GVFA
	·		<5%
		<=45% (cat. l.1)	5-20%
			20%>
	480/ / 4 1)		<5%
	<=45% (cat. I)	45-60% (cat. I.2)	5-20%
	, ,		20%>
			<5%
		60-75% (cat. I.3)	5-20%
			20%>
			<5%
		<=45% (cat. II.1)	5-20%
Experimental group of			20%>
	45 600/ (apt II)	45 000/ /+ 11 0)	<5% 5.20%
naviata	45-60% (cat. II)	45-60% (cat. II.2)	5-20%
poviats			20%>
·		CO 75% (and 11.2)	<5% 5-20%
	60-75% (cat. III)	60-75% (cat. II.3) <=45% (cat. III.1)	20%>
			20 <i>%</i>
			5-20%
			20%>
		45-60% (cat. III.2)	<5%
			5-20%
			20%>
		60-75% (cat. III.3)	<5%
			5-20%
			20%>
	<=45% (cat. I)	<=45% (cat. I.1)	
		45-60% (cat. 1.2)	
		60-75% (cat. 1.3)	
Control group of	45-60% (cat. II)	<=45% (cat. II.1)	
Control group of		45-60% (cat. II.2)	
noviate			
poviats	60-75% (cat. III)	60-75% (cat. II.3)	
		<=45% (cat. III.1)	
		45-60% (cat. III.2)	
		60-75% (cat. I.II3)	

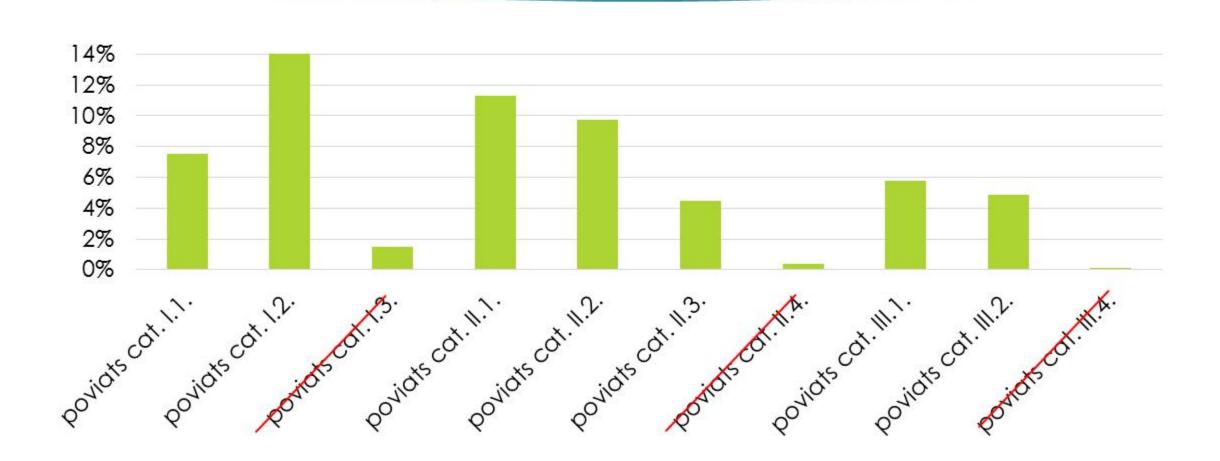
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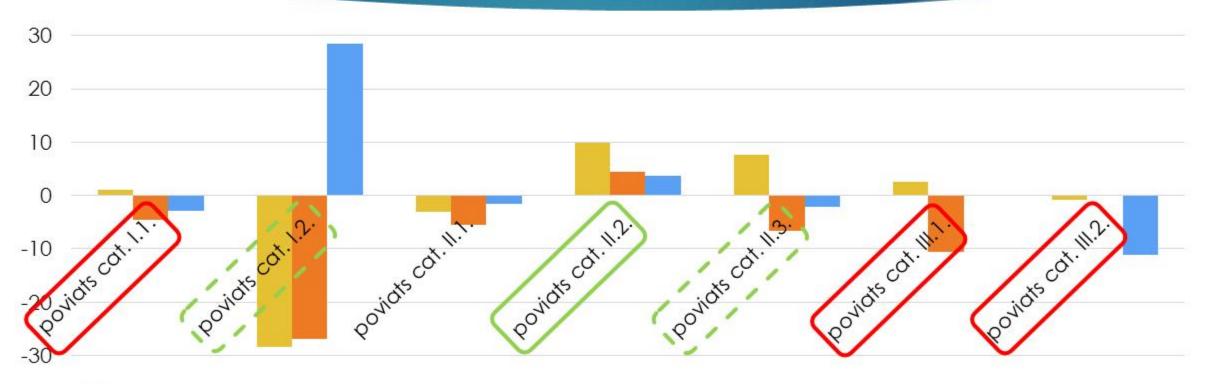
Share of investments in SEZs in the total GVFA in selected poviats categories



Change in GVFA per company in poviats with SEZs by categories compared to poviats without SEZs in 2005-2012 (in p.p.).



Change in the number of economic operators in poviats with SEZs by categories compared to poviats without SEZs in the period 2005-2013 (in p.p.).



- Poviats whose the share of SEZs investments in gross value of fixed assets is below 5%
- Poviats whose the share of SEZs investments in gross value of fixed assets ranging between 5 and 20%
- Poviats whose the share of SEZs investments in gross value of fixed assets above 20%

Unemployment rate change in poviats with SEZs by categories in relation to poviats without SEZs in the period 2005-2013 (in p.p.).



- Poviats whose the share of SEZs investments in gross value of fixed assets is below 5%
- Poviats whose the share of SEZs investments in gross value of fixed assets ranging between 5 and 20%
- Poviats whose the share of SEZs investments in gross value of fixed assets above 20%

SEZs investments impact upon development of poviats

Voivodeships	Poviats	Categories	Investment intensity in SEZ	Gross value of fixed assets per company	Number of companies	Unemployment rate
GDP <i>per</i> capita below	GDP <i>per capita</i> below 45% EU average	I.1	7.5%	-++	+	+++
45% EU average	GDP <i>per capita</i> between 45-60% EU average	1.2	14.5%	+++	+	-++
GDP per	GDP <i>per capita</i> below 45% EU average	П.1	11.3%	+++		+++
capita between 45-60% EU	GDP <i>per capita</i> between 45-60% EU average	II.2	9.8%	-+-	+++	++-
average	GDP <i>per capita</i> between 60-75% EU average	II.3	4.5%		+	-+-
GDP <i>per</i> capita between	GDP <i>per capita</i> below 45% EU average	III.1	5.7%	-+0	+-0	++0
60-75% EU average	GDP <i>per capita</i> between 45-60% EU average	III.2	4.9%	- 0+	-O-	+0+

Notes: Subsequent + or – means positive or negative impact in poviats whose the share of SEZs in gross value of fixed assets was respectively: below 5%, between 5-20% or above 20%.

Very positive outcome	Negative outcome	Positive and negative outcome	
Positive outcome	Very negative outcome		