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Reducing economic disparities between rural and urban areas through integrated development – Case study: analysis of the turnover of companies in the AIDA Association, Alba County, Romania

Introduction

In Romania, the necessity for developing integrated development of the rural and urban areas is included in the Operational Regional Programme for 2007 – 2013 and it is based on regional development law (Law no. 151/1998), modified through Law no. 315/2004, respecting the European Commission Regulation no. 1059/2003. So, according to these regulations in order to have an equilibrium development, the cities that are the county capitals should be used as social and economic development engines, representing in fact the definition of growth poles. At the same time, the effects of the agglomeration of small and medium cities from the preponderant rural areas can be used if these effects were proven. The objective of the Operational Regional Programme 2007–2013 is to support an equilibrate economic and social territorial development, corresponding to regional needs and resources, using the growth poles and developing the infrastructure and the business environment for increasing the attractiveness of Romanian regions for investors, tourism and also for their inhabitants.

The analysis is focused on the initiative developed in Romania, Alba County: the Intercommunity Development Association – Alba Iulia. This association was established legally in 2007 based on the national legal framework (Law no.

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246/2005 and Law no. 215/2001) referring to local public authorities. According to these laws, intercommunity associations are public utility organizations. These associations have to accomplish, for all members, development projects of local or regional interest and to assure public services for all inhabitants. The metropolitan areas and the urban conglomerates constituted based on the agreement of the local councils of the territorial and administrative units have as additional objective the infrastructure development.

Integrated development of the economic activity in urban and rural areas

The partnership developed between rural and urban areas is focused on reducing regional disparities. This is one of the aspects that the local and regional strategies should consider, mainly the concentration of directly productive investment and the exploitation of agglomeration economies (Hoover, 1948). Concentration is of obvious importance, if the activity is characterized by pronounced internal economies of scale in production. In such cases, a splitting of capacity among several locations within the region would be likely to raise unit costs and reduce the level of regional competitiveness. The concentration of economic activity might also be desirable, again on grounds of regional competitiveness, where the industry was not characterized by substantial internal economies of scale (though such a situation might well be seen by decision-makers as an opportunity for dispersing firms, in order to assist various parts of a region) (John B. Parr, 1999).

A case for concentration would also exist if the economic activity in question involved unrelated terms belonging to different industries. The concentration of economic activity becomes more complicated when a propulsive industry is established at a planned pole in the expectation that this will make the region more attractive. This approach, which harks back to the work of Perroux, implies certain assumptions about the correspondence between polarization in geographical and economic space, but frequently evades the issue as to whether the linked activities are to be located at the pole or elsewhere within the region (John B. Parr, 1999).

The second element important for growth-pole strategy concerns the potential efficiency gained from concentration that has to be viewed in temporal terms. The argument for this is that the concentration will contribute to successive improvements in the competitiveness of the region, leading to further rounds of investment, both external and internal. In this sense, the strategy has to be sustained over a relatively long time-period. There remains an important question as to how the process of concentration might be realised. In this case the problem of unrelated investment decisions (taken over slightly different periods, under different market conditional and with incomplete

information) may well result in an undesirably low level of concentration, with the attendant disadvantages (Alonso, 1968). In these circumstances, there seems to be a case for securing the appropriate level of concentration by making any financial assistance to private corporations conditional upon their location at the planned pole(s), although it has been claimed that this restriction is undesirable (Wilson, 1964; John B. Parr, 1999).

The National and regional economic framework

The national and regional business environment is presently facing issues regarding employees' qualifications. Romanian employees are not training in time and the companies have low interest in investing in performance improvements (according to studies conducted on the Romanian labour market). Small entrepreneurs are the ones with a significant contribution to the Gross Domestic Product and they are assuring 2/3rds of the nations working places. These are the main arguments for supporting this sector in recent years.

The small and medium enterprises sector is very important in every economy because these enterprises have a high capacity for adapting to new markets compared to the large companies. But, to support the small and medium enterprises sector, the national economy has to promote the entrepreneurial spirit, which will improve national competitiveness at national and international level. It has also to be considered that the sector of small and medium enterprises is inhomogeneous and has to be given special attention by industry and services, because it has long term growth potential on compared to the commerce sector.

Romania is structured in eight developing regions of which the eighth region is outstanding, Bucharest-Ilfov, which is concentrates 24% of the enterprises at national level. The Centerre Region, which also includes Alba County the area studied in this paper, has a concentration of 12% of active enterprises. Considering the dimension of the enterprises, at national level 91% are microenterprises with less than 10 employees, 7% small enterprises with less than 50 employees, over 1% medium enterprises with less than 250 employees and under 1% large enterprises with more than 250 employees. Considering the juridical organisation of the active enterprises, the majority are companies with limited liability followed at a great distance by the stock companies and collective companies.

Analysing the opportunities identified by the small and medium enterprises inr 2013 in a study conducted by the Ministry of Economy, the following can be observed: (1) increase of sales on the internal market (indicated by 65% of the companies) based on increase in the buying power of the internal economic agents; (2) assimilating new products (indicated by 44% of companies); (3) developing a new business partnership (indicated by 27% of companies);

(4) using new technologies (indicated by 7% of companies). For the Centre Region, companies identified the following business opportunities: (1) increase of sales on the internal market (indicated by the 51% of companies); (2) assimilating new products (indicated by the 53% of companies) and (3) penetrating new markets (indicated by 42% of companies).

Companies from the Centre Region indicated as negative influences the following factors: (1) world economic crisis (indicated by 73% of companies); (2) evolution of the legal framework (indicated by 52% of companies); (3) insufficient capacity of public authorities for overcoming the consequences of the economic crisis (indicated by 27% of companies); (4) insufficient predictability of the business environment for companies (indicated by 21% of companies) and (5) corruption (indicated by 20% of companies).

Intercommunity Development Association – Alba Iulia

The Intercommunity Development Association – Alba Iulia was established based on the following common objectives: (1) assuring and developing the local and regional infrastructure; (2) economic development based on economic competition and work place generation; (3) sustainable development of rural areas; (4) valorizing the tourism potential of local communities; (5) environment protection and sustainable human habitats; energy eco-efficiency and promotion of green energy; (6) human resources management and valorizing the ethnic, linguistic and religious local mix; (7) promoting cultural and artistic values, as well as identity preservation, valorizing traditions and local customs; (8) improving the educational, social and health infrastructure at local and regional level; (9) promoting the participatory citizenship; (10) affiliation and/or developing the partnerships, as well as supporting regional, national and international cooperation actions with other organizations: nongovernmental and local and central public authorities, universities, economic agents and other organizations.

The Intercommunity Development Association – Alba Iulia represents the interests of the eleven territorial and administrative rural and urban units around the core of Alba Iulia, representing a growth pole and also a development pole that is concentrating the institutional, economic, social and cultural interests of over 100.000 inhabitants. The association members are the local councils of the eleven localities represented through the mayors: Alba Iulia, Sebeș, Teiuș, Vințu de Jos, Sîntimbru, Ciugud, Ighiu, Galda de Jos, Cricău, Berghin, Meteș and also the Alba County Council.

The Economic situation of Alba County and the AIDA area

Alba County has an intense entrepreneurial activity having a total of 26 enterprises per 1.000 inhabitants. Over 90% of the companies recorded in Alba County are small and medium enterprises, which gives to the local business environment flexibility and development opportunities. More than half of the

companies are situated in the neighborhood of Alba Iulia and Sebeş and are contributing to almost 70% of the turnover recorded in Alba County. Considering the companies competitive advantage, Alba County is represented by quality products or services, low price goods, and highly skilled labour force.

“1 Decembrie 1918” University of Alba Iulia represents an important factor in the future development of Alba County due to the young skilled resources that this institution is offering to the market, and also due to the research centre involved in collaboration with the business environment. “1 Decembrie 1918” University of Alba Iulia has the mission of promoting and supporting in the local, regional, national and international community the development of particular educational, cultural and scientific elements.

Investments

After 1990 there were located, in Alba County several major foreign direct investments: Kronospan, former Fratti Company with an Italian investment of 270 million USD and taken over by an Austrian investor; Holzindustrie with an Austrian investment of 120 million USD; Sews Alba Iulia, Sumitomo Concern from Japan with an investment of 15 million USD; Star Transmission Sebeş with a German investment of 20 million Euro; Savini Due with an Italian investment of 12 million Euro; Ciatti with an Italian investment of 12 million Euro; Service Industriali with a foreign investment of 20 million Euro; Baumit Teiuş with a German investment of 28 million USD; Fair Play with an Italian investment of 12 million Euro; Pomponio with an Italian investment of 20 million Euro; Rekord with an Italian investment of 15 million Euro; Kaufland Alba Iulia with a German investment of 12 million Euro. The foreign direct investments are coming especially from Italy, Germany, Austria, Belgium, Canada and Japan.

Major Romanian investment in Alba County are: the reconstruction of the Alba Carolina Fortress by the Alba Iulia Town Hall – the biggest investment in development and introducing tourism the largest bastion fortress in South-East Europe; the Alba Carolina Fortress is a representative tourist sight for Transylvania, a national symbol that satisfies each Romanian; Transavia – an investment of over 22 million USD for the biggest export of chicken from South-East Europe; I.P.E.C. – an investment of 20 million USD in porcelain – over 90% of the production is for IKEA Concern, being the main supplier for the 420 stores all over the world; APA C.T.T.A. – an investment of 12 million USD; Staff Collection – an investment of 8 million USD in textiles; Elit – an investment of 25 million USD in meat industry; Albalact – an investment of 15 million Euro – the biggest Romanian company of milk products recorded on the Bucharest Stock Exchange; Supremia Alba Iulia 2011 an investment of 17 million Euro in ingredients for the alimentary industry; Borsec – Albacher

– an investment of 20 million Euro; Cozara Vințu de Jos – an investment of 8 million USD in the shoes industry.

Economic opportunities

Alba County is characterized by a highly skilled labour force very much appreciated by investors and supported in training activities by the “1 Decembrie 1918” University of Alba Iulia and other training companies. The research, development, and innovation activity can be developed by the business environment with the “1 Decembrie 1918” University of Alba Iulia and the research centers in the Alba County. The accessibility corridor Sebeș – Alba Iulia – Teiuș – Aiud – Turda along the highway Sebeș – Turda will facilitate connections with big European routes and will favour the development of an urban pole with almost 130.000 inhabitants in the area Alba Iulia – Sebeș – Teiuș.

Research design and methodology

The analysis focused on the turnover recorded by the companies in the AIDA area for 2012, structured on the economic activity. The economic activity in the AIDA area is focused on the major core of Alba Iulia. Followed by Sebeș in the intensity of economic activity, the two towns can become in the near future a functional growth pole which will polarise the economic activity in the area.

APPENDIX A Turnover of economic agents from the production sector in the AIDA area is offering data regarding the turnover recorded by 38 companies from production located in the AIDA area. APPENDIX B Turnover of economic agents from services sector in the theAIDA area, is offering data regarding the turnover recorded by 108 companies from the services sector located in AIDA area. The companies from the two sectors of activity were classified on administrative centre (towns and villages): 14 companies in towns and 24 companies in villages for the production sector and 39 companies in towns and 69 in villages for the services sector.

We note that before being placed in the application EViews 7 data had to be processed in order to be recognized by the software application.

In the scientific demarche of this study, the objective is to determine the average turnover recorded by the companies in production and in services, end they or observed as distinctive administrative units. The analysis is focused on determining if these averages are statistically different. To assess the statistical significance of the relationship between the quantitative regression (i.e. turnover) and dummy variables we use an ANOVA model.

For comparing the average values of the turnover a framework of regression analysis was used. In order to complete the analysis the following model was considered:

$$\log(Z_i) = \beta_1 + \beta_2 \cdot D_{2i} + \beta_3 \cdot D_{3i} + u_i \quad (1.1)$$

Where:

Z_i = (average) turnover of economic agent in administrative centre i ;

D_{2i} = 1 if the economic agent is in the municipal administrative centre of the AIDA area;

= 0 otherwise (i.e., in other administrative centre);

D_{3i} = 1 if the economic agent is in the rural administrative centre of the AIDA area;

= 0 otherwise (i.e., in other administrative centre).

In the 1.1 relation the multiple regressions contain a multiple dummy, taking the value of 1 if the observation belongs to a particular category and 0 if it does not belong to that category or group. Also we noted all dummy variables by the letter D. Appendix A and B shows the dummy variables thus constructed.

In our case the errors terms satisfies the usual OLS assumptions, and on taking expectancy off relation (1.1). on both sides, we achieve:

Mean turnover of economic agents in the municipal administrative centre of the AIDA area:

$$E(Z_i | D_{2i} = 1, D_{3i} = 0) = \beta_1 + \beta_2 \quad (1.2)$$

Mean turnover of economic agents in the rural administrative centre of the AIDA area:

$$E(Z_i | D_{2i} = 0, D_{3i} = 1) = \beta_1 + \beta_3 \quad (1.3)$$

Mean turnover of economic agents in the town administrative centre of the AIDA area:

$$E(Z_i | D_{2i} = 0, D_{3i} = 0) = \beta_1 \quad (1.4)$$

The mean turnover of economic agents in the town administrative centre of the AIDA area is determined by the intercept, β_1 , in the multiple regression (1.1), and the "slope" β_2 and β_3 show us the comparison between mean turnover of economic agents in the municipal and rural administrative centres of the AIDA area.

Results and discussion

Using the data from Appendix A and the regression (1.1), we acquire the following results:

$$\begin{array}{lll}
 \hat{Z}_i = 15.03612 & 2.478538D_{2i} & -1.018666D_{3i} \\
 se = (0.581047) & (0.662495) & (0.629146) \\
 t = (25.87765) & (3.741215) & (-1.619125) \\
 & (0.0000)* & (0.1075)* \quad R^2 = 0.31272
 \end{array} \tag{1.5}$$

Where* indicates the p values.

As these regression results show, the mean turnover of economic agents in the town administrative centre of the AIDA is about RON 6,000,000 (i.e. $\approx \exp(\beta_1)$), that of economic agents in the municipal administrative centre of the AIDA area greater by about RON 137,000,000 (i.e. $\approx \exp(\beta_1 + \beta_2)$), and that of economic agents in the rural administrative centre of the AIDA area is lower RON 500,000 (i.e. $\approx \exp(\beta_1 - \beta_3)$).

The “slope” in (1.5) is statistically significant for economic agents in the municipal administrative centre of AIDA the area, as its p value is 0.0003 and the “slope” for economic agents in the rural administrative centre of the AIDA area is not statistically significant, as its p value is 10 percent, whereas that of economic agents in the town administrative centre of the AIDA area is statistically significant as its p value is 0.0000. The overall conclusion is that statistically the mean turnover of economic agents in the town and the rural administrative centre of the AIDA area are about the same, but only the mean turnover of economic agents in the municipal and town zone are statistically significant.

Using the data from Appendix B and the regression (1.1), we obtain the following results:

$$\begin{array}{lll}
 \hat{Z}_i = 12.59152 & 3.693917D_{2i} & 0.0104D_{3i} \\
 se = (0.308123) & (0.365172) & (0.337217) \\
 t = (40.86517) & (10.11554) & (0.030839) \\
 & (0.0000)* & (0.9754)* \quad R^2 = 0.411722
 \end{array} \tag{1.6}$$

Where * indicates the p values.

As these regression results show, the mean turnover of economic agents (services sector) in the town administrative centre of the AIDA is about RON 3,800,000 (i.e. $\approx \exp(\beta_1)$), that of economic agents in the municipal administrative centre of the AIDA area greater by about RON 71,000,000 (i.e. $\approx \exp(\beta_1 + \beta_2)$), and that of economic agents in the rural administrative centre of the AIDA area is almost RON 3,300,000 (i.e. $\approx \exp(\beta_1 + \beta_3)$).

The “slope” in (1.6) is statistically significant for economic agents in the municipal administrative centre of the AIDA area, as its p value is 0.0000 and the “slope” for economic agents in the rural administrative centre of the AIDA area is not statistically significant, as its p value is 97 percent, whereas that of economic agents in the town administrative centre of the AIDA area is statistically significant as p value is 0.0000. The overall conclusion is that statistically the mean turnover of economic agents in the town and the rural administrative center of AIDA area are about the same, but only the mean turnover of economic agents in the municipal and town zone are statistically significant.

Conclusions

Analyzing the formation of turnover in the AIDA area, considering the contribution of each locality, the following aspects occurred: (1) the dominance of economic activity in the economy of the AIDA area by Alba Iulia, which has a contribution over 50%, (2) increase the economic contribution to the AIDA areal of Sebes to about 40, (3) the contribution of Teiuș to the economically formation of turnover in the AIDA area is modest, below 2%, (4) the economic potential shown by the villages Vințu de Jos, Ciugud, Ighiu, Galda de Jos and Sîntimbru.

It is known that the turnover of economic agents can be influenced by investment policy, number of employees, labour productivity, etc. Therefore we must take into account all these variables that may affect the annual turnover registered by economic companies.

For the future development of the AIDA area, the efforts have to be focused on the following objectives: (1) territorial cohesion and the harmonious development of the infrastructure of the area and the region; (2) tourism quality improvement – implementation of quality standards in tourism; (3) international cooperation and protection of the environment (waste management, chemical and noise pollution, renewable energy); (4) international cooperation for further development of innovative/efficient/sustainable transport networks.

APPENDIX A: Turnover of economic agents from production sector in the AIDA area

Turnover	D ₂	D ₃	u	Turnover	D ₂	D ₃	u	Turnover	D ₂	D ₃	u
46535629	1	0	-0,01045	280398463	1	0	0,080503	33030	0	1	-0,36968
5818322	1	0	-0,0746	4626008	0	1	0,23225	209418	0	1	0,237209
71998965	1	0	0,403513	13530	0	1	-0,02215	2262486	0	1	0,137035
226570	1	0	1,01979	198103	0	1	0,181664	436055	0	1	0,35063
487676581	1	0	0,013929	2668	0	1	-1,64573	31057574	1	0	0,050188
2973110	0	1	0,100172	2403098	0	1	0,19733	5860672	1	0	-0,06735
31725	0	1	-0,40999	281980	0	1	-0,0853	329945056	1	0	-0,3768
305437	0	1	-0,00539	229137	0	1	0,327197	31102659	1	0	0,051639
1477	0	1	0,243013	2033715	0	1	0,030435	57471289	1	0	0,045615
3195564	0	1	0,172327	5515687	0	1	0,408152	808	1	0	0,343666
4335329	0	1	0,167353	25458619	0	1	0,077564	2053663	0	0	0,098361
966552	0	1	0,139072	180369	0	1	0,087882	8242049	0	0	-0,06205
1019418	0	1	0,114822	5595534	0	1	0,422524	1445494	0	0	0,057195
6179425	0	1	0,521781	23450407	0	1	-0,0046	8216990	0	1	0,186744
17996658	0	1	-0,2693	1181813	0	1	0,146387	29168238	0	1	0,21359
331465	0	1	0,076384	38905	0	1	-0,20597	684269	0	1	0,181197
6496758	0	1	-0,04816	99964	0	1	-0,50231	88962849	1	0	0,172541
23059096	0	1	-0,02143	960632	0	1	0,132928	11412272	1	0	-0,02094
1654760	0	1	0,134235	169035	0	1	0,022983	454967861	1	0	-0,0555
246750	0	1	-0,21876	21978808	1	0	0,014432	162249450	1	0	0,153442
47919	0	1	-1,23761	3061821	1	0	-0,09659	310347773	1	0	-0,43803
1150137	0	1	0,138594	210642354	1	0	0,414469	3198791	0	1	0,173336
299614	0	1	-0,02464	26789956	1	0	-0,09763	22300	0	1	0,477525
18677544	1	0	-0,14833	50595241	1	0	-0,00431	912614	0	1	0,159152
2635117	1	0	-0,24667	2468056	0	0	-0,02784	4510	0	1	-1,12076
546624045	1	0	0,128037	17364467	0	0	0,373116	12356663	0	1	-0,6453

38256333	1	0	0,006773	964986	0	0	-0,03689	440074	0	1	0,359805
62453521	1	0	-0,02625	7479872	0	1	0,092756	1160649	0	1	0,147692
1902303	0	0	0,021801	158782	0	1	-0,03959	6334684	0	1	0,546595
32740691	0	0	-0,23272	27765735	0	1	0,164312	535457	0	1	-0,06403
1013314	0	0	0,011977	23566781	0	1	0,000348	10591055	0	1	-0,79948
4370822	0	1	0,175507	73996158	1	0	-0,01166	63641185	0	1	-0,24626
34104723	0	1	0,369945	14742074	1	0	0,235074	536488	0	1	-0,06211
644893	0	1	0,121931	457144203	1	0	-0,05072	8744069	0	1	0,248916
72305832	1	0	-0,03477	146657754	1	0	0,052409	7451432	0	1	0,088946
8494847	1	0	-0,31617	292028279	1	0	0,121142	33883077	0	1	0,363425
407308779	1	0	-0,16615	2728286	0	1	0,324244	440692	0	1	0,361208
12080860	1	0	0,035991	26587	0	1	-0,58667	120863	0	1	-0,31247
278359593	1	0	0,073205	206444	0	1	0,222906	221650	0	1	0,293977
21462488	1	0	-0,00934	9175508	0	1	-0,94295	2826924	0	1	0,049752
3061821	1	0	-0,09659	493804	0	1	0,164993	3713856	0	1	0,012626
441926215	1	0	-0,08458	677052	0	1	0,170594	34073899	1	0	-0,01213
26789956	1	0	-0,09763	6093343	0	1	0,507752	9273138	1	0	-0,22851
52331382	1	0	-0,04807	85685	0	1	-0,65645	344453915	1	0	-0,33376
2468056	0	0	-0,02784	9625826	0	1	-0,89504	56368730	1	0	0,026245
18436832	0	0	-0,18698	43494532	0	1	-0,62689	2402768	0	0	-0,05465
917075	0	0	-0,08781	756837	0	1	0,12699	7059402	0	0	0,093065
64927175	1	0	0,012592	8728057	0	1	0,247083	1978894	0	0	0,061274
10856925	1	0	-0,07083	8118202	0	1	0,174649	8000766	0	1	0,160077
368306690	1	0	-0,26681	32191116	0	1	0,3122	21912926	0	1	-0,07241
12080860	1	0	0,035991	481977	0	1	0,14075				

Note: D2 = 1 for turnover in the Municipal AIDA area; 0 otherwise.

D3 = 1 for turnover in the Rural AIDA area; 0 otherwise.

Source: Alba County, Finance Administration – data processed by the authors. Sep. 6, 2013.

APPENDIX B: Turnover of economic agents from services sector in the AIDA area

Turnover	D ₂	D ₃	u	Turnover	D ₂	D ₃	u	Turnover	D ₂	D ₃	u
75699708	1	0	327884,4504	824314	0	0	-2972760,472	63745	0	1	-3190570,22
889927897	1	0	814556073,5	446795	0	0	-3350279,472	281226	0	1	-2973089,22
122992907	1	0	47621083,45	85748	0	0	-3711326,472	644170	0	1	-2610145,22
57363112	1	0	-18008711,55	2000	0	0	-3795074,472	279726	0	1	-2974589,22
31392621	1	0	-43979202,55	42600	0	0	-3754474,472	1245350	0	1	-2008965,22
5887656	1	0	-69484167,55	1644233	0	0	-2152841,472	162332	0	1	-3091983,22
22496806	1	0	-52875017,55	10477	0	0	-3786597,472	13708	0	1	-3240607,22
70973762	1	0	-4398061,55	20324	0	0	-3776750,472	232300	0	1	-3022015,22
38748438	1	0	-36623385,55	26777	0	0	-3770297,472	5720	0	1	-3248595,22
1798518	1	0	-73573305,55	11044970	0	1	7790654,78	487039	0	1	-2767276,22
13917366	1	0	-61454457,55	26919861	0	1	23665545,78	5946286	0	1	2691970,78
5542038	1	0	-69829785,55	1347933	0	1	-1906382,22	15727962	0	1	12473646,78
9649536	1	0	-65722287,55	193553	0	1	-3060762,22	692363	0	1	-2561952,22
725034	1	0	-74646789,55	572122	0	1	-2682193,22	3006392	0	1	-247923,2201
862253	0	1	-2392062,22	167609	0	1	-3086706,22	33810	0	1	-3220505,22
8700	0	1	-3245615,22	17364	0	1	-3236951,22	69491	0	1	-3184824,22
70763313	0	1	67508997,78	78765	0	1	-3175550,22	15717	0	1	-3238598,22
874828	0	1	-2379487,22	26319363	1	0	-49052460,55	2873431	0	1	-380884,2201
224680	0	1	-3029635,22	699675634	1	0	624303810,5	167388	0	1	-3086927,22
4900	0	1	-3249415,22	116515198	1	0	41143374,45	20430621	1	0	-54941202,55
2136802	0	1	-1117513,22	47830273	1	0	-27541550,55	327013015	1	0	251641191,5
240754	0	1	-3013561,22	27761094	1	0	-47610729,55	238174720	1	0	162802896,5
133773	0	1	-3120542,22	5478235	1	0	-69893588,55	11083680	1	0	-64288143,55
1076184	0	1	-2178131,22	17815367	1	0	-57556456,55	3475801	1	0	-71896022,55

Turnover	D ₂	D ₃	u	Turnover	D ₂	D ₃	u	Turnover	D ₂	D ₃	u
543770	0	1	-2710545,22	74100903	1	0	-1270920,55	225138	1	0	-75146685,55
25838	0	1	-3228477,22	31315051	1	0	-44056772,55	1696131	1	0	-73675692,55
620146	0	1	-2634169,22	2298761	1	0	-73073062,55	16540909	1	0	-58830914,55
5588449	0	1	2334133,78	11917668	1	0	-63454155,55	55104439	1	0	-20267384,55
1806626	0	1	-1447689,22	11426101	1	0	-63945722,55	1285770	1	0	-74086053,55
295947	0	1	-2958368,22	7317679	1	0	-68054144,55	3373578	1	0	-71998245,55
12828	0	1	-3241487,22	1039089	0	1	-2215226,22	109718	1	0	-75262105,55
1098303	0	1	-2156012,22	296	0	1	-3254019,22	1352667	1	0	-74019156,55
13305	0	1	-3241010,22	18950	0	1	-3235365,22	971540	0	0	-2825534,472
15113479	0	1	11859163,78	1818112	0	1	-1436203,22	37712790	0	0	33915715,53
4939597	0	1	1685281,78	47289658	0	1	44035342,78	4445712	0	0	648637,5283
902972	0	1	-2351343,22	958613	0	1	-2295702,22	557018	0	0	-3240056,472
249612	0	1	-3004703,22	113855	0	1	-3140460,22	218414	0	0	-3578660,472
6855	0	1	-3247460,22	8303	0	1	-3246012,22	1819050	0	0	-1978024,472
710149	0	1	-2544166,22	97101	0	1	-3157214,22	639701	0	0	-3157373,472
828672	0	1	-2425643,22	8551320	0	1	5297004,78	719561	0	0	-3077513,472
165927	0	1	-3088388,22	219861	0	1	-3034454,22	20120	0	0	-3776954,472
165002	0	1	-3089313,22	34721	0	1	-3219594,22	25296	0	0	-3771778,472
3091193	0	1	-163122,2201	51081	0	1	-3203234,22	316888	0	0	-3480186,472
6823173	0	1	3568857,78	930	0	1	-3253385,22	16239941	0	1	12985625,78
74137	0	1	-3180178,22	588703	0	1	-2665612,22	37854712	0	1	34600396,78
1620372	0	1	-1633943,22	942373	0	1	-2311942,22	3977476	0	1	723160,7799
71858	0	1	-3182457,22	70990	0	1	-3183325,22	573763	0	1	-2680552,22
61086	0	1	-3193229,22	215397	0	1	-3038918,22	171856	0	1	-3082459,22
1320	0	1	-3252995,22	5173347	0	1	1919031,78	94278	0	1	-3160037,22
7352	0	1	-3246963,22	1347632	0	1	-1906683,22	147236	0	1	-3107079,22

Turnover	D ₂	D ₃	u	Turnover	D ₂	D ₃	u	Turnover	D ₂	D ₃	u
113750	0	1	-3140565,22	231943	0	1	-3022372,22	33337307	1	0	-42034516,55
12974105	0	1	9719789,78	30185	0	1	-3224130,22	869884860	1	0	794513036,5
9296351	1	0	-66075472,55	60858	0	1	-3193457,22	200568726	1	0	125196902,5
352260279	1	0	276888455,5	1132935	0	1	-2121380,22	51753718	1	0	-23618105,55
174822349	1	0	99450525,45	11816268	0	1	8561952,78	26235695	1	0	-49136128,55
14568925	1	0	-60802898,55	4593344	0	1	1339028,78	29215613	1	0	-46156210,55
1702729	1	0	-73669094,55	1026544	0	1	-2227771,22	16985993	1	0	-58385830,55
211344	1	0	-75160479,55	178491	0	1	-3075824,22	66367323	1	0	-9004500,55
3098011	1	0	-72273812,55	9792	0	1	-3244523,22	36046714	1	0	-39325109,55
18234766	1	0	-57137057,55	251672	0	1	-3002643,22	11986163	1	0	-63385660,55
1382618	1	0	-73989205,55	4853	0	1	-3249462,22	33153261	1	0	-42218562,55
744544	1	0	-74627279,55	577788	0	1	-2676527,22	41400448	1	0	-33971375,55
2156710	1	0	-73215113,55	319701	0	1	-2934614,22	97500696	1	0	22128872,45
78752	1	0	-75293071,55	139037	0	1	-3115278,22	139206	0	1	-3115109,22
928705	1	0	-74443118,55	4500	0	1	-3249815,22	107930	0	1	-3146385,22
253462	0	0	-3543612,472	60633	0	1	-3193682,22	20002	0	1	-3234313,22
30049010	0	0	26251935,53	3420138	0	1	165822,7799	8420055	0	1	5165739,78
1886681	0	0	-1910393,472	9736277	0	1	6481961,78	54633160	0	1	51378844,78
388255	0	0	-3408819,472	84076	0	1	-3170239,22	2084615	0	1	-1169700,22
181188	0	0	-3615886,472	1880949	0	1	-1373366,22	4500	0	1	-3249815,22
133582	0	0	-3663492,472	79633	0	1	-3174682,22	320373	0	1	-2933942,22
2209145	0	0	-1587929,472	13816	0	1	-3240499,22	1736824	0	1	-1517491,22
12821	0	0	-3784253,472	36850	0	1	-3217465,22	138528	0	1	-3115787,22
73326	0	0	-3723748,472	18426780	0	1	15172464,78	8681	0	1	-3245634,22
12029529	0	1	8775213,78	2271171	1	0	-73100652,55	364416	0	1	-2889899,22
18772716	0	1	15518400,78	338214214	1	0	262842390,5	375402	0	1	-2878913,22

Turnover	D ₂	D ₃	u	Turnover	D ₂	D ₃	u	Turnover	D ₂	D ₃	u
1062466	0	1	-2191849,22	153503895	1	0	78132071,45	2052200	0	1	-1202115,22
197601	0	1	-3056714,22	12281334	1	0	-63090489,55	1042588	0	1	-2211727,22
247594	0	1	-3006721,22	1928021	1	0	-73443802,55	599020	0	1	-2655295,22
203394	0	1	-3050921,22	211735	1	0	-75160088,55	133555	0	1	-3120760,22
1506	0	1	-3252809,22	1249051	1	0	-74122772,55	265725	0	1	-2988590,22
63090	0	1	-3191225,22	6278537	1	0	-69093286,55	571970	0	1	-2682345,22
65851298	1	0	-9520525,55	2221583	1	0	-73150240,55	1518549	0	1	-1735766,22
779645584	1	0	704273760,5	542533	1	0	-74829290,55	633650	0	1	-2620665,22
115982567	1	0	40610743,45	1775759	1	0	-73596064,55	280904	0	1	-2973411,22
49956188	1	0	-25415635,55	86021	1	0	-75285802,55	1434962	0	1	-1819353,22
28492932	1	0	-46878891,55	1147892	1	0	-74223931,55	446400	0	1	-2807915,22
5559341	1	0	-69812482,55	493907	0	0	-3303167,472	75866	0	1	-3178449,22
18728722	1	0	-56643101,55	31184882	0	0	27387807,53	1330378	0	1	-1923937,22
76475029	1	0	1103205,45	783754	0	0	-3013320,472	11142	0	1	-3243173,22
31860937	1	0	-43510886,55	446795	0	0	-3350279,472	9888624	0	1	6634308,78
2242464	1	0	-73129359,55	85748	0	0	-3711326,472	6060655	0	1	2806339,78
11875023	1	0	-63496800,55	2000	0	0	-3795074,472	1128560	0	1	-2125755,22
11394099	1	0	-63977724,55	43492	0	0	-3753582,472	4601	0	1	-3249714,22
8429199	1	0	-66942624,55	1644233	0	0	-2152841,472	74965	0	1	-3179350,22
1034169	0	1	-2220146,22	10477	0	0	-3786597,472	251876	0	1	-3002439,22
296	0	1	-3254019,22	20324	0	0	-3776750,472	133376	0	1	-3120939,22
18950	0	1	-3235365,22	26777	0	0	-3770297,472	33150	0	1	-3221165,22
1818112	0	1	-1436203,22	11527003	0	1	8272687,78	48967	0	1	-3205348,22
47408606	0	1	44154290,78	26919861	0	1	23665545,78	382305	0	1	-2872010,22
958613	0	1	-2295702,22	1401366	0	1	-1852949,22	86287	0	1	-3168028,22
161729	0	1	-3092586,22	193553	0	1	-3060762,22	506156	0	1	-2748159,22

Turnover	D ₂	D ₃	u	Turnover	D ₂	D ₃	u	Turnover	D ₂	D ₃	u
8303	0	1	-3246012,22	572122	0	1	-2682193,22	195497	0	1	-3058818,22
97101	0	1	-3157214,22	195982	0	1	-3058333,22	14296	0	1	-3240019,22
8551320	0	1	5297004,78	17364	0	1	-3236951,22	26235	0	1	-3228080,22
219861	0	1	-3034454,22	70721	0	1	-3183594,22	5847	0	1	-3248468,22
34723	0	1	-3219592,22	36351267	1	0	-39020556,55	232990	0	1	-3021325,22
51081	0	1	-3203234,22	1047196855	1	0	971825031,5	790	0	1	-3253525,22
930	0	1	-3253385,22	171837921	1	0	96466097,45	5460888	0	1	2206572,78
958046	0	1	-2292629,22	55095635	1	0	-20276188,55	14255466	0	1	11001150,78
942373	0	1	-2311942,22	25647720	1	0	-49724103,55	2221576	0	1	-1032739,22
70990	0	1	-3183325,22	14235312	1	0	-61136511,55	3704830	0	1	450514,7799
314414	0	1	-2939901,22	18798237	1	0	-56573586,55	22859	0	1	-3231456,22
736655	0	1	-2517660,22	63865775	1	0	-11506048,55	295748	0	1	-2958567,22
1348234	0	1	-1906081,22	57231627	1	0	-18140196,55	16947	0	1	-3237368,22
6882	0	1	-3247433,22	12861920	1	0	-62509903,55	293747	0	1	-2960568,22
12413951	0	1	9159635,78	30023675	1	0	-45348148,55	8000844	0	1	4746528,78
4593344	0	1	1339028,78	49572000	1	0	-25799823,55	489785	0	1	-2764530,22
992273	0	1	-2262042,22	47735052	1	0	-27636771,55	9686643	1	0	-65685180,55
178491	0	1	-3075824,22	81211	0	1	-3173104,22	340985654	1	0	265613830,5
9792	0	1	-3244523,22	31525	0	1	-3222790,22	256324199	1	0	180952375,5
251673	0	1	-3002642,22	30002	0	1	-3224313,22	11836444	1	0	-63535379,55
4853	0	1	-3249462,22	6754914	0	1	3500598,78	2944704	1	0	-72427119,55
757825	0	1	-2496490,22	54116065	0	1	50861749,78	327205	1	0	-75044618,55
414533	0	1	-2839782,22	1648409	0	1	-1605906,22	1863634	1	0	-73508189,55
139037	0	1	-3115278,22	3000	0	1	-3251315,22	18305333	1	0	-57066490,55
4500	0	1	-3249815,22	8430	0	1	-3245885,22	58381334	1	0	-16990489,55
60633	0	1	-3193682,22	304618	0	1	-2949697,22	1322207	1	0	-74049616,55

Turnover	D ₂	D ₃	u	Turnover	D ₂	D ₃	u	Turnover	D ₂	D ₃	u
3118122	0	1	-136193,2201	1195161	0	1	-2059154,22	5109194	1	0	-70262629,55
9933260	0	1	6678944,78	190427	0	1	-3063888,22	97378	1	0	-75274445,55
92658	0	1	-3161657,22	13460	0	1	-3240855,22	1764797	1	0	-73607026,55
1882949	0	1	-1371366,22	281223	0	1	-2973092,22	932999	0	0	-2864075,472
79633	0	1	-3174682,22	736869	0	1	-2517446,22	39690912	0	0	35893837,53
15436	0	1	-3238879,22	578515	0	1	-2675800,22	4220738	0	0	423663,5283
36850	0	1	-3217465,22	798527	0	1	-2455788,22	717610	0	0	-3079464,472
18426780	0	1	15172464,78	564251	0	1	-2690064,22	192845	0	0	-3604229,472
1758368	1	0	-73613455,55	161594	0	1	-3092721,22	2830935	0	0	-966139,4717
389578845	1	0	314207021,5	362256	0	1	-2892059,22	1472450	0	0	-2324624,472
165270378	1	0	89898554,45	560122	0	1	-2694193,22	651305	0	0	-3145769,472
13199060	1	0	-62172763,55	1504030	0	1	-1750285,22	15130	0	0	-3781944,472
1985439	1	0	-73386384,55	514278	0	1	-2740037,22	34405	0	0	-3762669,472
211734	1	0	-75160089,55	271028	0	1	-2983287,22	244513	0	0	-3552561,472
1249051	1	0	-74122772,55	17898	0	1	-3236417,22	21485183	0	1	18230867,78
25377538	1	0	-49994285,55	1604919	0	1	-1649396,22	45301195	0	1	42046879,78
2237856	1	0	-73133967,55	244678	0	1	-3009637,22	2625093	0	1	-629222,2201
500533	1	0	-74871290,55	12501	0	1	-3241814,22	573763	0	1	-2680552,22
2144621	1	0	-73227202,55	657879	0	1	-2596436,22	216110	0	1	-3038205,22
86021	1	0	-75285802,55	8848477	0	1	5594161,78	131147	0	1	-3123168,22
1827077	1	0	-73544746,55	4538432	0	1	1284116,78	10585	0	1	-3243730,22
42291	0	0	-3754783,472	2048371	0	1	-1205944,22	599543	0	1	-2654772,22
29719597	0	0	25922522,53	59473	0	1	-3194842,22				

Note: D2 = 1 for turnover in the Municipal AIDA area; 0 otherwise.

D3 = 1 for turnover in the Rural AIDA area; 0 otherwise.

Source: Alba County, Finance Administration – data processed by the authors. Sep. 6, 2013

References

- ALONSO, W., 1968. Urban and regional imbalances in economic development, *Economic Development and Cultural Change*, 17, pp. 1–14.
- CHRISTOFAKIS M. AND PAPADASKALOPOULOS A., 2011. The Growth Poles Strategy in Regional Planning: The Recent Experience of Greece, *Theoretical and Empirical Researches in Urban Management*, Volume 6 Issue 2.
- GAVRILĂ-PAVEN IONELA, 2012. Entrepreneurs' Generations – Case Study: Alba County (Generații de antreprenori – Studiu de caz: Județul Alba), Sociology Summer School organized by the Romanian Academy, Târgu Lăpuș.
- HOOVER, E. M., 1969. Some old and new issues in regional development, in: E. A. G. Robinson (Ed.) *Backward Areas in Advanced Countries*, pp. 343±357. London: Macmillan.
- PARR, J. B., 1999. Growth-pole Strategies in Regional Economic Planning: A Retrospective View. Part 1. Origins and Advocacy, *Urban Studies*, Vol. 36, No. 7, 1195–1215.
- PARR, J. B., 1981. The distribution of economic opportunity in a central place system: dynamic aspects and growth poles, in: A. Kuklinski (Ed.) *Polarized Development and Regional Policies: Tribute to Jacques Boudeville*, pp. 59–69. The Hague: Mouton.
- PERROUX, F., 1950, Economic space: theory and application, *Quarterly Journal of Economics*, 64, pp. 89–104.
- PERROUX, F., 1952. Matériaux pour une analyse de la croissance économique, *Cahiers de l'ISEA*, Series D, No. 9, pp. 132–143.
- PERROUX, F., 1955. Note sur la notion de pôle de croissance, *Economie Appliquée*, 8, pp. 307–320.
- PERROUX, F., 1961. La firme motrice dans une région, et la région motrice, in: *Theorie et Politique de l'Expansion Régionale*, pp. 301–327. Liège: Bibliothèque de l'Institut de Science Economique de l'Université de Liège.
- PERROUX, F., 1988. The pole of development's new place in a general theory of economic activity, in: B. Higgins and D. Savoie (Eds) *Regional Economic Development: Essays in Honour of François Perroux*, pp. 48–76, Boston: Unwin Hyman.
- POPA, N., 2010. The Growth Poles: A Balanced Option for Decentralization and Regional Development in Romania?, *Revista Română de Geografie Politică*, Year XII, no. 2, November 2010, pp. 206–226.
- WILSON, T., 1964. *Policies for Regional Development*. Edinburgh: Oliver and Boyd.
- Basic Econometrics. Published by McGraw-Hill/Irwin, a business unit of The McGraw-Hill Companies, Inc. 1221 Avenue of the Americas, New York, NY.
- EVIEWS 7 User's Guide I, and II, 2010. Quantitative Micro Software, LLC, 4521 Campus Drive, #336, Irvine CA, 92612-2621, USA, ISBN: 978-1-880411-40-7.
- DEVELOPMENT STRATEGY of Alba County for 2007–2013, 2007. National Foundation of Young Managers (Fundatia Națională a Tinerilor Manageri).
- REGIONAL DEVELOPMENT Agency for Center Region, 2010. Study: Center Region – Premises and Development Potential.
- SMALL AND MEDIUM Enterprises National Council Romania in partnership with Ministry of Economy, 2013. White Charta of Romanian Small and Medium Enterprises (Carta Albă a IMM-urilor din România 2013), Sigma Printing House, Bucharest.
- ROMANIAN GOVERN, Agriculture, Forests and Rural Development Ministry, 2007. Rural Development National Program for 2007–2013.

Abstract

This paper presents a local initiative in Romania, Alba County, which tries to establish general guidelines for the sustainable development of a local community that consists of three towns and eight villages. The analysis conducted in this paper is focused on economic activity. The turnover of the companies located in the eleven localities that compose the Intercommunity Development Association – Alba Iulia have been studied. The authors' objective is to determine the influences effecting the localities and to establish the core of the economic development of this partnership which is trying to surpass the barriers between rural and urban and to form a community able to valorize its potential according to the principles of sustainable development.

Key words: integrated development, discrepancies between rural and urban area, turnover

Zmniejszenie różnic gospodarczych pomiędzy obszarami wiejskimi i miejskimi poprzez zintegrowany rozwój – studium przypadku: analiza obrotów firm związku AIDA, Alba County, Rumunia

Streszczenie

Artykuł ten przedstawia lokalną inicjatywę w obszarze Alba County (Rumunia). Do jej realizacji pozyskano trzy miasta i osiem wsi. Inicjatywa ta próbuje ustalić ogólne wytyczne dla zróżnicowanego rozwoju społeczności lokalnej. Analiza prowadzona w tym artykule koncentruje się na działalności gospodarczej. Prowadzone badania opierały się na analizowaniu obrotów firm zlokalizowanych w jedenastu miejscowościach, które tworzą stowarzyszenie wspólnotowe – Alba Iulia. Celem autorów jest określenie wpływów obserwowanych między miejscowościami i ustanowienie rdzenia rozwojowego dla partnerstwa, które polega na przekroczeniu granicy pomiędzy wsią a miastem poprzez tworzenie wspólnoty rozwojowej zdolnej do waloryzacji potencjału, zgodnie z zasadami zrównoważonego rozwoju.

Уменьшение экономических различий между деревенскими и городскими районами благодаря их интегрированному развитию – Исследование конкретного случая: Анализ оборотов обществ «AIDA», Алба Коунты, Румыния

Резюме

Эта статья представляет местную инициативу в Румынии, область Алба Коунты. В статье была проведена попытка установления общих целей для уравновешенного развития местного общества. Исследование пошло на базе трех городов и восьми деревень. Анализ, проделанный в данной статье, концентрируется на хозяйственной деятельности. Охватывает он исследование финансовых оборотов

фирм локализованных в одиннадцати населенных пунктах, которые объединены в Общество внутриобщинного развития – Алба Юлиа. Целью исследований было определение связи между населенными пунктами, а также стержня хозяйственного развития для партнёрства, которое старается преодолеть границы между деревней и городом, а также создаёт общность способную к валоризации его потенциала, согласно принципам уравновешенного развития.

Ключевые слова: уравновешенное развитие, разницы между деревенскими и городскими районами

JEL: Q13