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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 condition al 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 concentraties 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, Sebeş, Teiuş, Vinţu de Jos, Sîntimbru, Ciugud, Ighiu, Galda de Jos, Cricău, Berghin, Meteş 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 laboor 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 sue 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, formal 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 an 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; Baumit Teiuş with a German investment of 28 million USD; Fair Play an Italian investment of 12 million Euro; Pomponio with an Italian investment of 20 million Euro; Kaufland Alba Iulia with a German 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 safines 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 Vinţu 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 Sebeş – Alba Iulia – Teiuş – Aiud – Turda along the highway Sebeş – Turda will facilitare connections with big European routes and will favour the development of an urban pole with almost 130.000 inhabitants in the area Alba Iulia – Sebeş – Teiuş.

# 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 Sebeş 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:

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

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

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

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

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

The mean turnover of economic agents in the town administrative centre of the AIDA area is determined by the intercept,  $\beta_1$ , in the multiple regression (1.1), and the "slope"  $\beta_2$  and  $\beta_3$  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:

$$\hat{Z}_i = 15.03612$$
 2.478538 $D_{2i}$  -1.018666 $D_{3i}$  (0.629146) (1.5)   
 $t = (25.87765)$  (3.741215) (-1.619125) (0.0000)\* (0.0003)\* (0.1075)\*  $R^2 = 0.31272$ 

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:

$$\hat{Z}_i = 12.59152$$
  $3.693917D_{2i}$   $0.0104D_{3i}$   $se = (0.308123)$   $(0.365172)$   $(0.337217)$   $t = (40.86517)$   $(10.11554)$   $(0.030839)$   $(0.0000)^*$   $(0.9754)^*$   $R^2 = 0.411722$ 

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 Teiuş to the economically formation of turnover in the AIDA area is modest, below 2%, (4) the economic potential shown by the villages Vinţu 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

| 1 1 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0                                       | -0,01045 | 621006006 |          |   | <b>:</b> |           | 1 | o<br>I | 3        |
|---|----------|-----------|----------|---|----------|-----------|---|--------|----------|
|   | -0.0746  | 200290402 | $\vdash$ | 0 | 0,080503 | 33030     | 0 | 1      | 89698'0- |
|   | 0,0,1    | 4626008   | 0        | 1 | 0,23225  | 209418    | 0 | 1      | 0,237209 |
|   | 0,403513 | 13530     | 0        | 1 | -0,02215 | 2262486   | 0 | 1      | 0,137035 |
|   | 1,01979  | 198103    | 0        | 1 | 0,181664 | 436055    | 0 | 1      | 0,35063  |
| 0                                       | 0,013929 | 2668      | 0        | 1 | -1,64573 | 31057574  | 1 | 0      | 0,050188 |
| 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 1 0 0 0 1 | 0,100172 | 2403098   | 0        | 1 | 0,19733  | 5860672   | 1 | 0      | -0,06735 |
| 0 0 1 1 0 0 0 1   | -0,40999 | 281980    | 0        | 1 | -0,0853  | 329945056 | 1 | 0      | -0,3768  |
| 0 1 0 0 1   | -0,00539 | 229137    | 0        | 1 | 0,327197 | 31102659  | 1 | 0      | 0,051639 |
| 0 1 0   | 0,243013 | 2033715   | 0        | 1 | 0,030435 | 57471289  | 1 | 0      | 0,045615 |
| 0 1   | 0,172327 | 5515687   | 0        | 1 | 0,408152 | 808       | 1 | 0      | 0,343666 |
|   | 0,167353 | 25458619  | 0        | 1 | 0,077564 | 2053663   | 0 | 0      | 0,098361 |
| 0 1   | 0,139072 | 180369    | 0        | 1 | 0,087882 | 8242049   | 0 | 0      | -0,06205 |
| $0 \mid 1 \mid$   | 0,114822 | 5595534   | 0        | 1 | 0,422524 | 1445494   | 0 | 0      | 0,057195 |
| $0 \mid 1 \mid$   | 0,521781 | 23450407  | 0        | 1 | -0,0046  | 8216990   | 0 | 1      | 0,186744 |
| 0 1   | -0,2693  | 1181813   | 0        | 1 | 0,146387 | 29168238  | 0 | 1      | 0,21359  |
| 0 1   | 0,076384 | 38905     | 0        | 1 | -0,20597 | 684269    | 0 | 1      | 0,181197 |
| 0 1   | -0,04816 | 99964     | 0        | 1 | -0,50231 | 88962849  | 1 | 0      | 0,172541 |
| 0 1   | -0,02143 | 960632    | 0        | 1 | 0,132928 | 11412272  | 1 | 0      | -0,02094 |
| 0 1   | 0,134235 | 169035    | 0        | 1 | 0,022983 | 454967861 | 1 | 0      | -0,0555  |
| 0 1   | -0,21876 | 21978808  | 1        | 0 | 0,014432 | 162249450 | 1 | 0      | 0,153442 |
| 0 1   | -1,23761 | 3061821   | 1        | 0 | -0,09659 | 310347773 | 1 | 0      | -0,43803 |
| 0 1   | 0,138594 | 210642354 | 1        | 0 | 0,414469 | 3198791   | 0 | 1      | 0,173336 |
| 0 1   | -0,02464 | 26789956  | 1        | 0 | -0,09763 | 22300     | 0 | 1      | 0,477525 |
| 1 0   | -0,14833 | 50595241  | 1        | 0 | -0,00431 | 912614    | 0 | 1      | 0,159152 |
| 1 0   | -0,24667 | 2468056   | 0        | 0 | -0,02784 | 4510      | 0 | 1      | -1,12076 |
| 1 0   | 0,128037 | 17364467  | 0        | 0 | 0,373116 | 12356663  | 0 | 1      | -0,6453  |

| 2        | 2        | 2        | 3        | 8        | 9        | 1        | 9         | 9         | 2         | 8         | _        | _         | 2        | 9        | 3         | 1        | 9         | 2        | 2        | 2        | 4        | 7        | 1         |          |
|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|----------|-----------|----------|----------|-----------|----------|-----------|----------|----------|----------|----------|----------|-----------|----------|
| 0,359805 | 0,147692 | 0,546595 | -0,06403 | -0,79948 | -0,24626 | -0,06211 | 0,248916  | 0,088946  | 0,363425  | 0,361208  | -0,31247 | 0,293977  | 0,049752 | 0,012626 | -0,01213  | -0,22851 | -0,33376  | 0,026245 | -0,05465 | 0,093065 | 0,061274 | 0,160077 | -0,07241  |          |
| 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1         | 1         | 1         | 1         | 1        |           | 1        | 1        | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 1        | 1         |          |
| 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0         | 0         | 0         | 0        | 0         | 0        | 0        | 1         | 1        | 1         | 1        | 0        | 0        | 0        | 0        | 0         |          |
| 440074   | 1160649  | 6334684  | 535457   | 10591055 | 63641185 | 536488   | 8744069   | 7451432   | 33883077  | 440692    | 120863   | 221650    | 2826924  | 3713856  | 34073899  | 9273138  | 344453915 | 56368730 | 2402768  | 7059402  | 1978894  | 99/0008  | 21912926  |          |
| -0,03689 | 0,092756 | -0,03959 | 0,164312 | 0,000348 | -0,01166 | 0,235074 | -0,05072  | 0,052409  | 0,121142  | 0,324244  | -0,58667 | 0,222906  | -0,94295 | 0,164993 | 0,170594  | 0,507752 | -0,65645  | -0,89504 | -0,62689 | 0,12699  | 0,247083 | 0,174649 | 0,3122    | 0,14075  |
| 0        | 1        | 1        | 1        | 1        | 0        | 0        | 0         | 0         | 0         | 1         | 1        |           | 1        | 1        | 1         | 1        | 1         | 1        | 1        | 1        | 1        | 1        | 1         | 1        |
| 0        | 0        | 0        | 0        | 0        | 1        | 1        | 1         | 1         | 1         | 0         | 0        | 0         | 0        | 0        | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0         | 0        |
| 964986   | 7479872  | 158782   | 27765735 | 23566781 | 73996158 | 14742074 | 457144203 | 146657754 | 292028279 | 2728286   | 26587    | 206444    | 9175508  | 493804   | 677052    | 6093343  | 85685     | 9625826  | 43494532 | 756837   | 8728057  | 8118202  | 32191116  | 481977   |
| 0,006773 | -0,02625 | 0,021801 | -0,23272 | 0,011977 | 0,175507 | 0,369945 | 0,121931  | -0,03477  | -0,31617  | -0,16615  | 0,035991 | 0,073205  | -0,00934 | 65960'0- | -0,08458  | -0,09763 | -0,04807  | -0,02784 | -0,18698 | -0,08781 | 0,012592 | -0,07083 | -0,26681  | 0,035991 |
| 0        | 0        | 0        | 0        | 0        | 1        | 1        | 1         | 0         | 0         | 0         | 0        | 0         | 0        | 0        | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0         | 0        |
| 1        | 1        | 0        | 0        | 0        | 0        | 0        | 0         | 1         | 1         | 1         | 1        | 1         | 1        | 1        | 1         | 1        | 1         | 0        | 0        | 0        | 1        | 1        | 1         | 1        |
| 38256333 | 62453521 | 1902303  | 32740691 | 1013314  | 4370822  | 34104723 | 644893    | 72305832  | 8494847   | 407308779 | 12080860 | 278359593 | 21462488 | 3061821  | 441926215 | 26789956 | 52331382  | 2468056  | 18436832 | 917075   | 64927175 | 10856925 | 069908898 | 12080860 |

D2 = 1 for turnover in the Municipal AIDA area; 0 otherwise. D3 = 1 for turnover in the Rural AIDA area; 0 otherwise. Note:

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

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

| Turnover  | _ | ٦ | =            | Turnover  | <u> </u> | _ | =            | Turnover  | <u> </u> | 0 |              |
|-----------|---|---|--------------|-----------|----------|---|--------------|-----------|----------|---|--------------|
| 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  | П | 0 | -43979202,55 | 42600     | 0        | 0 | -3754474,472 | 1245350   | 0        | 1 | -2008965,22  |
| 5887656   | П | 0 | -69484167,55 | 1644233   | 0        | 0 | -2152841,472 | 162332    | 0        | 1 | -3091983,22  |
| 22496806  | П | 0 | -52875017,55 | 10477     | 0        | 0 | -3786597,472 | 13708     | 0        | 1 | -3240607,22  |
| 70973762  | П | 0 | -4398061,55  | 20324     | 0        | 0 | -3776750,472 | 232300    | 0        | 1 | -3022015,22  |
| 38748438  | П | 0 | -36623385,55 | 26777     | 0        | 0 | -3770297,472 | 5720      | 0        | 1 | -3248595,22  |
| 1798518   | П | 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   | П | 0 | -69829785,55 | 1347933   | 0        | 1 | -1906382,22  | 15727962  | 0        | 1 | 12473646,78  |
| 9649536   | П | 0 | -65722287,55 | 193553    | 0        | 1 | -3060762,22  | 692363    | 0        | 1 | -2561952,22  |
| 725034    | П | 0 | -74646789,55 | 572122    | 0        | 1 | -2682193,22  | 3006392   | 0        | 1 | -247923,2201 |
| 862253    | 0 | П | -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 | Т | -2178131,22  | 17815367  | 1        | 0 | -57556456,55 | 3475801   | 1        | 0 | -71896022,55 |

| Turnover | $\mathbf{D}_2$ | $\mathbf{D}_3$ | n            | Turnover | $\mathbf{D}_2$ | $\mathbf{D}_3$ | n            | Turnover | $\mathbf{D}_2$ | $\mathbf{D}_3$ | n            |
|----------|----------------|----------------|--------------|----------|----------------|----------------|--------------|----------|----------------|----------------|--------------|
| 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              | $\vdash$       | -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              | $\vdash$       | -2958368,22  | 7317679  | 1              | 0              | -68054144,55 | 3373578  | 1              | 0              | -71998245,55 |
| 12828    | 0              | П              | -3241487,22  | 1039089  | 0              | 1              | -2215226,22  | 109718   | 1              | 0              | -75262105,55 |
| 1098303  | 0              | $\vdash$       | -2156012,22  | 296      | 0              | 1              | -3254019,22  | 1352667  | 1              | 0              | -74019156,55 |
| 13305    | 0              | П              | -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              | П              | -2351343,22  | 958613   | 0              | 1              | -2295702,22  | 557018   | 0              | 0              | -3240056,472 |
| 249612   | 0              | Н              | -3004703,22  | 113855   | 0              | 1              | -3140460,22  | 218414   | 0              | 0              | -3578660,472 |
| 6855     | 0              | П              | -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              | П              | -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              | $\vdash$       | -3182457,22  | 206607   | 0              | 1              | -3183325,22  | 573763   | 0              | 1              | -2680552,22  |
| 61086    | 0              | 7              | -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  | $\mathbf{D}_2$ | $\mathbf{D}_3$ | n            | Turnover  | $\mathbf{D}_2$ | $\mathbf{D}_3$ | n            | Turnover  | $\mathbf{D}_2$ | $D_3$ | n            |
|-----------|----------------|----------------|--------------|-----------|----------------|----------------|--------------|-----------|----------------|-------|--------------|
| 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 | 82809     | 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  | 96900526  | 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 | 7              | 0              | 262842390,5  | 375402    | 0              | 1     | -2878913,22  |

| Turnover  | $D_2$ | $\mathbf{D}_3$ | n            | Turnover  | $\mathbf{D}_2$ | $\mathbf{D}_3$ | n            | Turnover | $\mathbf{D}_2$ | $\mathbf{D}_3$ | n           |
|-----------|-------|----------------|--------------|-----------|----------------|----------------|--------------|----------|----------------|----------------|-------------|
| 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              |                | -2748159,22 |

| Turnover | $\mathbf{D}_2$ | $\mathbf{D}_3$ | n           | Turnover   | $\mathbf{D}_2$ | $\mathbf{D}_3$ | n            | Turnover  | $\mathbf{D}_2$ | $\mathbf{D}_3$ | n            |
|----------|----------------|----------------|-------------|------------|----------------|----------------|--------------|-----------|----------------|----------------|--------------|
| 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              | $\vdash$       | -3240019,22  |
| 8551320  | 0              | 1              | 5297004,78  | 17364      | 0              | 1              | -3236951,22  | 26235     | 0              | Т              | -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  | 190       | 0              | $\vdash$       | -3253525,22  |
| 930      | 0              | 1              | -3253385,22 | 171837921  | 1              | 0              | 96466097,45  | 5460888   | 0              | $\vdash$       | 2206572,78   |
| 958046   | 0              | 1              | -2296269,22 | 55095635   | 1              | 0              | -20276188,55 | 14255466  | 0              | П              | 11001150,78  |
| 942373   | 0              | 1              | -2311942,22 | 25647720   | 1              | 0              | -49724103,55 | 2221576   | 0              | П              | -1032739,22  |
| 06602    | 0              | 1              | -3183325,22 | 14235312   | 1              | 0              | -61136511,55 | 3704830   | 0              | Н              | 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              | ⊣              | -2958567,22  |
| 1348234  | 0              | 1              | -1906081,22 | 57231627   | 1              | 0              | -18140196,55 | 16947     | 0              | $\vdash$       | -3237368,22  |
| 6882     | 0              | 1              | -3247433,22 | 12861920   | 1              | 0              | -62509903,55 | 293747    | 0              | $\vdash$       | -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              | Т              | -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  | $\mathbf{D}_2$ | D <sub>3</sub> | n            | Turnover | $\mathbf{D}_2$ | D <sub>3</sub> | n           | Turnover | $\mathbf{D}_2$ | D <sub>3</sub> | n            |
|-----------|----------------|----------------|--------------|----------|----------------|----------------|-------------|----------|----------------|----------------|--------------|
| 3118122   | 0              | 1              | -136193,2201 | 1195161  | 0              | T              | -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              | П              | -2675800,22 | 4220738  | 0              | 0              | 423663,5283  |
| 36850     | 0              | 1              | -3217465,22  | 798527   | 0              | Т              | -2455788,22 | 717610   | 0              | 0              | -3079464,472 |
| 18426780  | 0              | 1              | 15172464,78  | 564251   | 0              | Т              | -2690064,22 | 192845   | 0              | 0              | -3604229,472 |
| 1758368   | 1              | 0              | -73613455,55 | 161594   | 0              | 1              | -3092721,22 | 2830935  | 0              | 0              | -966139,4717 |
| 389578845 | П              | 0              | 314207021,5  | 362256   | 0              | П              | -2892059,22 | 1472450  | 0              | 0              | -2324624,472 |
| 165270378 | 1              | 0              | 89898554,45  | 560122   | 0              | П              | -2694193,22 | 651305   | 0              | 0              | -3145769,472 |
| 13199060  | 1              | 0              | -62172763,55 | 1504030  | 0              | 1              | -1750285,22 | 15130    | 0              | 0              | -3781944,472 |
| 1985439   | Т              | 0              | -73386384,55 | 514278   | 0              | П              | -2740037,22 | 34405    | 0              | 0              | -3762669,472 |
| 211734    | $\vdash$       | 0              | -75160089,55 | 271028   | 0              | Т              | -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 | 624829   | 0              | 1              | -2596436,22 | 216110   | 0              | 1              | -3038205,22  |
| 86021     | 1              | 0              | -75285802,55 | 8848477  | 0              | Т              | 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. Alba County, Finance Administration – data processed by the authors. Sep. 6, 2013 Source:

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#### **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 поводилось 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

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