

European Grants For Investment In Regional SMEs: The Case Of Castilla-La Mancha (Spain)

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ABSTRACT

Public initiatives to assist the sustainable development of the rural environment are of great significance in the Spanish region of Castilla-La Mancha, which is faced with important socio-economic changes that will undoubtedly condition the future of the rural environment. In these latter fields, the experience acquired in the Rural Innovation Programmes (Spanish acronym: PIR) carried out so far is of particular relevance. The intention of this study is to analyse the impact of the line known as 1.06, which is meant to support small enterprises (SMEs) and services in the general context of rural innovation programmes. For the empirical work, the chosen territory was the Autonomous Community of Castilla-La Mancha during the programme period 2002-2006 (LEADER + and PRODER II) for which there is data on the implementation of the financial tables from 2006. The incidence of the aforementioned programmes is analysed using the shift-share methodology, which allows to identify the different effects (global, structural and competitive) into which financial implementation may be divided.

Keywords: Shift-share, rural innovation programmes, small enterprises

INTRODUCTION

Disadvantaged rural areas occupy a significant part of Spanish territory and by extension, most of the European Union. This is the reason why there have been efforts to promote endogenous rural development on the basis of territorial vertebration policies, translating into major economic efforts, but especially aimed at developing measures to support these regions. The year 1991 saw the launch of the EU Initiative LEADER, proposed by the European Commission (Mondéjar, Mondéjar, Vargas and Meseguer, 2008). This name represents the successive EU initiatives for rural development in the European Union. In French, it stands for “Liaisons entre activités de Développement de L’Economie Rural”; in other words, “Relations between Rural Economy Development Activities” (Ministry of Agriculture, Fisheries and Food, 2008). To be specific, “the EU Initiative LEADER is a new way of addressing rural development on the basis of a work methodology that forms local action groups at a county level to analyse the problems, weak points, strong points and opportunities in their territories with a view to designing their own development strategies and proposing them to the local and regional administrations” (García, Febles and Zapata 2005). This EU Initiative LEADER I was followed by the LEADER II programme, along with the Operational Programme for Economic Development and Diversification in Rural Areas (PRODER), which was carried out by the Government of Spain for the budgetary implementation in accordance with the philosophy and methodology of the LEADER programme (Mondéjar, Mondéjar and Vargas, 2008b).

In short, this is the most important Rural Development Policy implemented by the Member States of the European Union with a view to promoting the rural environment. Thus, in the last period of the programme, between 2002-2006, both the Commission and the Government of Spain decided to continue their support for these instruments via the LEADER + Initiative and the PRODER 2 Programme (Abad 2006).

Thus, for the new period of implementation of the EU Initiative LEADER and the PRODER Development Programme (LEADER + and PRODER 2), the main aim will be to activate and consolidate sustainable development of the rural environment in the medium and long term. To this end, ten lines of investment have been established for the support measures involved in the development strategy, as may be seen in Table 1 (Vargas and Mondéjar 2006).

Table 1: Development Strategies in Rural Innovation Programmes

OPERATIONAL CONTENT	LEADER+ AND PRODER 2
Acquisition of skills	1.01
Managerial, administrative and technical support expenses	1.02
Services to the population	1.03
Natural heritage	1.04
Valuation of local agricultural produce	1.05
SMEs and services	1.06
Valuation of cultural and architectonic heritage	1.07
Tourism	1.08
Other investments	1.09
Training and employment	1.10

Source: Department of the Environment and Rural Development.

The investment priorities of the Local Action Groups (Spanish acronym: GAL) are revealed in the percentage distribution of the funds, especially in the portion that is aimed at SMEs and services, as seen in the Table 2. Moreover, the investment location coefficients are included for this specific measure: these coefficients compare the proportion of capital invested by the group with the same proportion throughout the region. Values above one unit would indicate that the measure in question was of greater importance than the rest, while values below one unit would indicate a lower relative repercussion of the measure in the particular group.

If we also analyse the location coefficient of the various assistance measures in each programme, we will be able to obtain a comparison between the proportion of capital invested by the group and the same proportion throughout the region. Values above one unit indicate that the particular measure is more important, while values below one unit reveal a lower relative repercussion of the measure in the particular group. This information may be used to build investment “profiles” for each local action group, reflecting in which expenditure measures it has specialised, as may be seen in the Table 2 (Mondéjar, Mondéjar and Vargas, 2008b).

Line 1.06 for SMEs and services accounts, in some counties for over one-third of the programme’s total investment, continuing the investment pattern of the 1996-2001 period and revealing the importance of these activities for the sustainable development of the rural environment in Castilla-La Mancha (Alfaro, Mondéjar and Vargas 2004). As may be seen from this data, 16 counties throughout the region have exceeded the Autonomous Community average with regard to the measure of supporting small enterprises and services. This detail is especially noteworthy as they have been capable of generating a very significant amount of private investment and also increase employability levels in their respective counties. This investment effort by the public administrations has been accompanied by the commitment of agents in the rural environment who are undertaking substantially high private expenditure in the majority of projects in Castilla-La Mancha. For the programme period 2002 to 2006, the initial investment planned in the Rural Innovation Programmes rose to 274.21 million euros (Mondéjar, Mondéjar and Vargas, 2008a). Of this capital, almost 60% (a total of approximately 162 million euros) corresponds to public initiative, distributed among the Spanish administrations (national, autonomous and local) - almost 21% - and the European administrations, which represents almost 40% of expected investment. In turn, the initial expected participation of private initiative reaches almost 40% (just over 112 million euros). Therefore, the so-called “demonstration effect” has occurred, which leads to private investment along with public aid, materialising in new projects and initiatives in the same direction (Vargas and Mondéjar 2006) and making rural tourism one of the pillars of harmonious, balanced and sustainable development.

Table 2: Analysis of the Measure SMEs and Services in Castilla-La Mancha

Percentage of measure 1.06 of total				Location coefficient			
Sier. Segura	27.57%	Adiman	31.22%	Sier. Segura	0.7	Adiman	1.2
C. Hellín	36.46%	Alcarria conq.	33.57%	C. Hellín	1.3	Alcarria conq.	1.1
Mancha Júcar	45.27%	Záncara	26.70%	Mancha Júcar	1.5	Záncara	1.3
Manchuela	31.87%	Adesiman	31.41%	Manchuela	0.9	Adesiman	1.1
Monte Ibérico	35.28%	Fadeta	34.92%	Monte Ibérico	1	Fadeta	1.3
Sacam	21.72%	Molina	25.33%	Sacam	0.5	Molina	0.9
Montesur	26.61%	Adel	22.70%	Montesur	1	Adel	0.7
Calatrava	17.69%	Adac	39.43%	Calatrava	0.8	Adac	1.3
Valle Alcudia	20.63%	Quijote	39.94%	Valle Alcudia	0.4	Quijote	1.2
Guadiana	26.16%	Adecor	43.65%	Guadiana	0.8	Adecor	1.6
Montes Norte	17.61%	Dulcinea	31.82%	Montes Norte	0.7	Dulcinea	1.2
Promancha	43.81%	Ipeta	41.72%	Promancha	0.7	Ipeta	0.7
Tierra libertad	24.04%	Castillos	55.76%	Tierra libertad	0.7	Castillos	2.1
Cabañeros	24.89%	Montes Toledo	43.80%	Cabañeros	0.9	Montes Toledo	1.3
Prodesse	21.30%	Autonomous	31.96%	Prodesse	0.5	Autonomous	1

Source: Study data based on data provided by the Regional Government of Castilla-La Mancha

EMPIRICAL STUDY

Taking into consideration the lines of support established in the EU Initiative LEADER + and the Operational Programme PRODER 2 (Table 1), this work analyses measure 1.06 to support small enterprises and services. The fact is that this set of measures configures one of the three basic pillars of grants in the scope of the programmes, as well as the line of tourism (Gómez, Mondéjar, Mondéjar and Monsalve 2007) and for heritage support (Esteban, Mondéjar, Mondéjar and Meseguer, 2008). In order to go further into the study of the capacity of the SMEs and Services measure to capture capital and how the effort is distributed on a spatial basis, we chose to carry out a *shift-share* analysis, a technique that is used in regional statistical analysis and that allows to quantify the effects associated to the different structure of the counties in Castilla - La Mancha and the "competitiveness" of local development agents in attracting private capital towards enhancement initiatives (Esteban, Mondéjar, Mondéjar and Meseguer, 2008).

Shift-share analysis was developed by Dunn (1960) as a method for calculating the components that explain the variations in economic magnitudes. According to Dunn (1960), "the essential component in this statistical technique is to calculate geographical changes in the evolution of the economy".

If K_{ij} is used to denote the initial expected capital corresponding to measure i ($i = 1, \dots, s$) for the county j ($j = 1, \dots, r$) in the initial instance and K'_{ij} the capital committed in this measure and county in the final instance, then the variation recorded (degree of financial implementation) may be expressed by the following equation (Mayor, López and Pérez 2005):

$$K'_{ij} - K_{ij} = \Delta K_{ij} = K_{ij}r + K_{ij}(r_i - r) + K_{ij}(r_{ij} - r_i)$$

where:

$$r = \frac{\sum_{i=1}^s \sum_{j=1}^r (K'_{ij} - K_{ij})}{\sum_{i=1}^s \sum_{j=1}^r K_{ij}} \quad r_i = \frac{\sum_{j=1}^r (K'_{ij} - K_{ij})}{\sum_{j=1}^r K_{ij}} \quad r_{ij} = \frac{K'_{ij} - K_{ij}}{K_{ij}}$$

and the three addends into which the global variation of the magnitude under study may be broken down as follows:

Global Effect	$EG_{ij} = K_{ij} r$
Structural Effect	$EE_{ij} = K_{ij} (r_i - r)$
Competitive Effect	$EC_{ij} = K_{ij} (r_{ij} - r)$

As may be seen in this breakdown (Table 3), as well as the inertia represented by the global effect (Spanish acronym: EG), we have to consider the contributions toward growth (positive or negative) that are derived from factors specific to each spatial field, which are represented by the sum of the Structural Effect and the Competitive Effect and usually referred to as the *net effect*. The structural effect describes the positive or negative influence on growth by the different relative importance of the heritage lines, with growth rates above or below the regional average, respectively, possibly associated to the possibilities of each county's cultural heritage. In turn, the competitive effect describes the particular dynamism of a county with regard to the regional level in each line and would therefore constitute a measure of the county's "success" in capturing capital for the SMEs and services line.

Table 3: Results Per Group, Shift-Share Analysis

Local Action Group (GAL)	Global Effect	Structural Effect	Competitive Effect	Actual Variation	Actual Variation/ Global Effect
Sier. Segura	576,756	987,404	-1,505,942	58,218	0.101
C. Hellín	537,702	920,543	323,375	1,781,621	3.313
Mancha Júcar	1,085,014	1,857,539	-761,596	2,180,956	2.01
Manchuela	450,216	770,767	1,532,489	2,753,472	6.116
Monte Ibérico	353,242	604,749	1,345,426	2,303,417	6.521
Sacam	499,017	854,315	-416,709	936,623	1.877
Montesur	460,722	788,755	-686,721	562,756	1.221
Calatrava	257,303	440,501	-140,158	557,646	2.167
Valle Alcudia	274,663	470,222	-328,629	416,256	1.516
Guadiana	465,639	797,172	-750,814	511,997	1.1
Montes Norte	360,697	617,512	-790,814	187,396	0.52
Promancha	495,967	849,093	286,211	1,631,271	3.289
Tierra libertad	413,736	708,314	-695,290	426,760	1.031
Cabañeros	228,372	390,973	-175,420	443,925	1.944
Prodesa	531,156	909,337	-663,587	776,906	1.463
Adiman	655,201	1,121,702	342,844	2,119,747	3.235
Alcarria conq.	720,593	1,233,652	-56,727	1,897,518	2.633
Záncara	745,091	1,275,593	81,333	2,102,017	2.821
Adesiman	800,193	1,369,927	-1,829,679	340,440	0.425
Fadeta	760,050	1,301,202	1,419,968	3,481,220	4.58
Molina	642,871	1,100,593	-150,112	1,593,352	2.478
Adel	605,954	1,037,390	-1,327,923	315,422	0.521
Adac	746,562	1,278,111	-295,451	1,729,222	2.316
Quijote	604,594	1,035,063	-158,949	1,480,708	2.449
Adecor	575,258	984,840	638,626	2,198,724	3.822
Dulcinea	536,744	918,903	217,195	1,672,842	3.117
Ipeta	750,006	1,284,007	-430,804	1,603,209	2.138
Castillos	687,534	1,177,056	1,563,041	3,427,632	4.985
Montes Toledo	462,998	792,650	1,650,370	2,906,018	6.277

By calculating the effects of the classical *shift-share* model and adding them for each county, we would obtain an estimation of the global, structural and competitive effects depicted in Table 3, which also presents the actual variation in capital compared to what was initially expected and the degree of financial implementation expected if we only consider the global effect.

In order to correctly interpret the actual variation in expected and committed capital, it is necessary to carry out a detailed analysis of the *structural* and *competitive* effects. Therefore, the structural effect has a positive value in all of the counties, with a more heterogeneous effect in the provinces, which does not allow us to reach conclusions on behavioural patterns. In turn, the competitive effect has a negative value in 18 groups and positive in only 10 groups, which reveals the more significant implication in terms of heritage of the groups mentioned compared to the regional total. If we take into account the quotient between the actual variation and the global effect, it reveals positive values in all groups, which may have a positive repercussion on the creation of entrepreneurial fabric in the provinces. In this regard, just four groups obtain values below one unit, which indicates a worse performance than initially expected by the group in its investments as a whole, which confirms the investments of line 1.08 in tourism (Gómez, Mondéjar, Mondéjar and Monsalve 2007).

CONCLUSIONS

This project has specifically considered measure 1.06 for rural tourism in the context of the application of rural development programmes in the Spanish region of Castilla-La Mancha, particularly the EU Initiative LEADER + and the Operational Programme PRODER II, which have covered practically the entire autonomous territory following the previous experiences of LEADER II, PRODER and before the latter, LEADER I.

These are initiatives that enhance most of the territorial resources in European regions while also representing a “demonstration effect” in local economies, with the intention of boosting certain rural areas - which sometimes are very much behind other regions, such as urban areas.

Moreover, the strategic investment lines are aspects that are highly relevant in the scope of actual territorial development as they lay the foundations in the medium and long term for promoting particularly disadvantaged rural areas. In this regard, the degree to which each of the lines of investment is taken into consideration reveals the importance granted to these different fields.

Once again, measure 1.06 to support SMEs and services and measure 1.08 for tourism were the ones that concentrated the most funds due to their capacity to mobilize private capital. As we have seen before, the fact that before the closure of the programme, 18 counties had certified over 100% of the initially planned investment, which leads us to believe that all of the groups will exceed this initial expectation. Therefore, the measure of support for SMEs and services becomes the main generator of investment, especially in the private sphere, along with the other major measure in rural development programmes, which is intended to promote tourism in these areas (Vargas and Mondéjar, 2006). In order to complete this general overview, the application of the *shift-share* analysis allows to break down the degree of financial implementation into various effects: the global effect, which is associated to the dynamism of private initiative towards investment in SMEs in Castilla-La Mancha, as the average of the aggregates according to counties and funding measures; the structural effect, which may be associated to the different business fabric existing initially in the different counties, which do not attract private capital in the same way due to their heterogeneous nature and the competitive effect, which reflects the differences in how capital is captured in each county in terms of the average for the Autonomous Community with regard to each measure.

AUTHOR BIOGRAPHIES

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