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Values, beliefs and economic behaviors: a regional approach

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Abstract. The main goal of this paper is to identify relationships between value orientations, beliefs and economic behavior of agents, on one side, and differences between levels of economic development, on the other. Empirical analysis is based on a sample of Portuguese municipalities and correspondent parishes, organized in groups set by an urban versus rural typology and according to levels of development as measured by GDP per capita. Different value orientations, beliefs and behaviors were identified according to mostly either supply-side or demand-side, as well as predominantly State versus Private Sector orientations. Four clusters were thereby considered, which we generically named as corresponding to "stabilization", "economic nationalism", "entrepreneurship" and "consumerism". These clusters are related to the spatial dimensions considered. Parishes named "rural", "rural-urban" and "urban" have shown (albeit in a small degree) a prevailing orientation to the State, whereas "developing" parishes lean to private sector. Rural parishes are markedly consumerist, whereas in those said "rural-urban" supply-side orientation prevails. Both "urban" and "developing" (correspondent to zones going through big recent changes) occupy, in this context, an intermediate position.

Keywords: Values, beliefs, economic behaviors, Portuguese regions.

1. Introduction

The main purpose of this paper is to identify relationships between value orientations, beliefs and economic behavior of agents, on one side, and differences between levels of economic development, on the other.

The empirical analysis is based on a sample of Portuguese municipalities and correspondent parishes, organized in groups set by an urban versus rural typology and according to levels of development as measured by GDP per capita.

Different value orientations, beliefs and behaviors were identified according to mostly either supply-side or demand-side, as well as predominantly State versus Private Sector orientations. Four clusters were thereby considered, which we generically named as corresponding to "stabilization", "economic nationalism", "entrepreneurship" and "consumerism". These clusters are related to the spatial dimensions considered. Parishes named "rural", "rural-urban" and "urban" have shown (albeit in a small degree) a prevailing orientation to the State, whereas "developing" parishes lean to private sector. Rural parishes are markedly consumerist, whereas in those said "rural-urban" supply-side orientation prevails. Both "urban" and "developing" (correspondent to zones going through big recent changes) occupy, in this context, an intermediate position.

Using several empirical techniques, namely descriptive statistics, principal component analysis, econometrics (GMM), etc., an exhaustive study of values, attitudes and behaviors is made based on a significant and detailed sample of Portuguese population. This work can be an important instrument of analysis and decision support for the implementation of regional policies.

2. Methodology

The methodology for data gathering was based on a classification combining a set of four indicators: 1) rural condition; 2) accessibility to goods and services; 3) income and modernity; 4) activity level and renovation. With these indicators, based on indexes proposed by reference [1], a cluster analysis was made classifying all the Portuguese parishes (4.037) as belonging to one of four distinct clusters.

The four indicators aforementioned allowed the construction of four statistical indexes based on the geographical characterization of each parish (regarding the "rural condition" and the "accessibility to goods and services") and operating also at the level of municipalities' membership (resulting from these two indexes of "economic contextualization", named as index of "income and modernity" and index of "activity and renovation").

After systematically collecting data corresponding to the territorial units, each of the indexes was build using factor analysis techniques. All these indexes confirm the existence of a largely heterogeneous territory in terms of dimension of rurality, accessibility and economic context.

After identifying the homogeneous parishes, according to these criteria, a cluster analysis was made, applied to a representative sample of Mainland Portugal.

Municipalities' analysis / Classification of parishes

The starting point for the cluster analysis was a classification of Portuguese parishes according with the four indicators previously mentioned: rurality, accessibility to goods and services, income-and-modernity, activity-and-renovation. Each parish has therefore one particular value for each one of these indicators. The cluster analysis performed suggests the existence of four distinct clusters.

The final result, with the description of the content and profile of each cluster as well as the number of parishes by cluster, is presented in Figure 1.

The cluster analysis was made at the parish level, as at the municipal level the results were not statistically robust. Consequently, it was with the results from parishes that the municipalities were indirectly grouped. The results, with a confidence level of 95% and a sample error of 7%, are presented in Table 1.

< Table 1 about here >

The municipalities were studied as regards its parishes' distribution and number of parishes by cluster. This way we know how many parishes each municipality has in each cluster. So, we can

identify those that are the more homogeneous municipalities by cluster, that is to say, with the correspondent parishes more concentrated in just one cluster. Besides, this categorization allows an estimation of resident population in each cluster.

At this stage, it was not considered the homogeneity of municipalities but only which of them would correspond to each cluster, in order to allow us an approximation to total population. The data concerning population by municipality were obtained from INE - Statistics Portugal, *Anuário Estatístico* 2007. This way, we have sufficient and adequate data for specifying our sample. The calculations made point to a sample adequate dimension of 1.000 individuals for Inland Portugal (for a confidence level of 95%, an sample error of 3,1% and a Z value of 1,96, we obtained a sample dimension of 999).

We had to select 187 parishes distributed by the aforementioned clusters. Given the estimative of population by cluster (B) and the correspondence of this value in the sample (C), it is possible to calculate the number of individuals by parish (see Table 2).

< Table 2 about here >

Given the small number of parishes to select in clusters 2, 3 and 4, it is imperative to operate in our final analysis at the municipality level. As the values to collect in each parish are below 30, we must work with, respectively, 2 parishes by municipality in Cluster 1, 6 parishes by municipality in Cluster 2, 15 parishes by municipality in Cluster 3 and 8 parishes by municipality in Cluster 4 (Column F). Dividing the column D values by these values we obtain the number of municipalities of the sample of column G. For a representative sample of 187 parishes we have then a final sample of 30 municipalities. The numbers in the table are not exact but approximate, in order to simplify the calculations.

The data collection by this procedure will be more rich and exact because we will exclude from the municipalities the parishes that are not truly "characteristic" of that municipality, because they are located in another cluster. We start with a representative sample of parishes which results in a further aggregation of municipalities.

Selection of the municipalities to questioned

According with Table 2, Column G, we need 10 municipalities in Clusters 1 and 2, and 5 municipalities in Clusters 3 and 4. For the final selection we use the information about the parishes' distribution, now in order to choose:

- 1. The most "homogeneous" municipalities by cluster; and
- 2. Try to get municipalities from all the clusters in all the major regions of the country, whenever possible.

In Table 3 we have the distribution of municipalities by cluster, which constitutes the reference for the choice of parishes.

< Table 3 about here >

This was one possible and viable selection, respecting all the defined criteria. Among these municipalities there were only chosen parishes corresponding to the cluster to which the municipality belongs and in the number (column F) presented at Table 2.

This methodology allowed us to proceed with the recollection of data in a systematic way. After the selection of municipalities in which to implement the questionnaire, the field work occurred between April and September 2009. On the whole, 949 individuals participated in filling the questionnaire, divided by municipalities and clusters according with the results presented in Table 4.

< Table 4 about here >

In each municipality an average of 32 questionnaires were launched, with a minimum of 24 in Vila Real and a maximum of 41 in Almada and Cascais. The distribution of individuals by municipality is presented in Table 5.

< Table 5 about here >

The sample is composed by 593 females (64%) e 333 males (36%). The participants' minimum age is 16 years and the maximum 84, with an average value of 34 years (Standard Deviation equal to 11.9).

3. Values, beliefs and economic behaviors

The purpose of this analysis is to understand the psycho-sociological factors with impacts on economics. Values and beliefs are the cognitive components forming the relationship of individuals with the economy and the influence of these cognitive components on the economic behavior (specifically regarding saving, credit and investments) has not yet been fully clarified.

The economic beliefs have been associated with pathological behaviors regarding money (see, about this, references [2] and [4]) and with the support for different human values (see reference [4]). In reference [5] data was collected from eight countries and it was shown that the "control locus" (attribution of events' causality to individuals' external or internal causes) is related to the economic values supported: in synthesis, it can be said that the external "control locus" is related to the absence of trust on firms and protest against the unfair treatment of workers.

So, we look to:

- (1) Study the structure of economic values in a Portuguese sample;
- (2) Describe the beliefs of Portuguese citizens as regards the functioning of the economy;
- (3) Identify the prevalence of saving, credit demand and investment behaviors;
- (4) Understand the connection between values, beliefs and economic behaviors.

As regards the economic values, we adopted the Scale of Economic Values of O'Brien and Ingels (for more details about this scale, see reference [6]), initially developed in the United States and having afterwards been applied with adaptations in several countries.

A study of Principal Component Analysis (CPA) uncovered a structure different from the one originally defined by these authors, suggesting that the common ideas about economics are much different in Portugal and the USA.

Four components were extracted [Sphericity test of Bartlett=1397.943, p<.05, Kaiser-Meyer-Olkin .723 p<.05; Minimum communality .382], explaining a total variance of 54.185%. These components are: **1 Conservatism**, **2 Alienation**, **3 Support of the economic system and 4 Probusiness leaning**. The composition of these components is presented in Table 6.

< Table 6 about here >

From the correlations analysis, one of the main conclusions is that the Conservatism values are strongly connected with Alienation, and also with Support of the economic system, but at a lower scale. Alienation is also positively correlated with Pro-business values as well as the Support of the economic system (see Table 7).

< Table 7 about here >

With the purpose of studying the economic beliefs of Portuguese citizens, we used the scale proposed in [7] about the common understanding of the functioning of the Economy. This scale measures in multiple choice answers the explanations given by participants about the unemployment-inflation trade-off, the causal factors being attributed either to the individuals, the firms or the State. A descriptive analysis of the reported beliefs is presented, in synthesis, in Figures 2 to 6.

< Figures 2 to 6 about here >

Therefore, the majority of respondents think that in order to mitigate the unemployment problem the Government should help the firms, the citizens should buy only domestic products and the investment of firms should be increased. On the other hand, the majority considers that saving has not an impact on unemployment.

The best strategy to fight inflation is, for the majority of respondents, to lower the interest rate, a clear indication of economic illiteracy. Finally, the respondents agree with the idea that the

government should help people investing in new businesses in order solve the economic situation of the country. In what regards the whole set of these five aspects it is useful to consider each of the identified clusters per se.

The analysis of the individuals' economic beliefs by cluster reveals the existence of some significant differences. There are no differences about either how the government should solve the unemployment problem ($\chi^2=15.777$, p>.05) or about the causes of inflation ($\chi^2=14.719$, p>.05).

However, there are differences across clusters about the way citizens should contribute to fight unemployment (χ^2 =30.669, p=.002), about how savings influence unemployment (χ^2 =17.614, p=0.04), about how to fight inflation (χ^2 =23.537, p=.023) and about how the government should improve the economic situation of the country (χ^2 =28.250, p<.05).

The urban-rural cluster has the participants less inclined to invest on their personal wealth and more inclined to investment in businesses as an instrument to fight unemployment. On the other hand, the members of rural cluster are those more advocating small personal saving in order to diminish unemployment (Figure 7).

< Figure 7 about here >

In what concerns the way how savings affect unemployment, development cluster's participants consider mainly that more saving increases unemployment while rural cluster's members find that more saving diminishes unemployment (Figure 8).

< Figures 8 about here >

In order to fight inflation the individuals of rural cluster consider more than others that persons should be able to access credit more easily, but in development cluster the opinions are more supportive of consuming more (Figure 9). Last, but not least, rural-urban members are those more agreeing that government should help people investing with the aim of improving the financial situation of the country (Figure 10).

< Figures 9 and 10 about here >

Regarding economic behaviors, the main conclusion is that the majority of respondents claim to save (71.84%). There are significant differences (χ^2 =68.812, p<.05) across municipalities (Figure 11). The municipality with participants claiming to save less is Lisbon (38%) while the more saving-inclined are in Abrantes (91%), Guarda (92%), Mirandela (93%) and Sertã (92%).

< Figure 11 about here >

More than half of the respondents say that have already bought through credit (62.34%) and there are also differences across municipalities (χ^2 =56.762, p=.02). Guarda, Santa Maria da Feira and Viana do Castelo are the municipalities where the respondents less refer to buying through credit, while Almada, Beja, Cartaxo, Odivelas and Silves are the municipalities with more abundant use of credit instruments (Figure 12).

< Figure 12 about here >

Contrary to this, a large part of individuals does not have any kind of investment (84.81%) and this result is consistent by municipality (χ^2 =40.145, p=.082). There are differences by cluster concerning the experiences of saving (χ^2 =20.904, p=0.000). Rural cluster's individuals (87%) claim to save usually more than other clusters' individuals, although all the values are high (Figure 13). Regarding the act of buying through credit there are no different across clusters (χ^2 =3.123,p=0.373) with values of magnitudes 60%-70%. The values corresponding to investment are much lower and exhibit only a marginal difference across clusters (χ^2 =7.603,p=0.055). The clusters where the citizens claim to tend to invest more are the rural cluster (15.2%) and the development one (12.4%).

< Figure 13 about here >

4. Principal component analysis and multiple correspondences: patterns

The analysis of multiple correspondences determines the correspondences' relationships between different variables in an attempt to reduce the data complexity and the search of patterns. Four patterns were found organizing the data in a way that allows an aggregate interpretation. The number of individuals corresponding to each pattern is presented at Table 8.

< Table 8 about here >

The dimension 1 (axis of abscissa) distinguishes the main influences upon the Economy as the Demand (+) or the Supply (-). The dimension 2 separates the individuals which attribute the Economy's direction to the public sector (+) or to the private sector (-). The interception of these dimensions identifies four patterns marked by different colors (Figure 14). The categories which mostly differentiate the patterns are signaled by the respective color. The categories combining colors red/blue are simultaneously shared by group 2 and group 3. The categories combining colors purple/orange (4th quadrant) are simultaneously shared by groups 1 and 4. The two categories corresponding to the indicator "For improving the economic situation of the country, the government should ..." are properly marked, and each one of them is also associated with a pair of groups, as marked by the arrows.

Finally, the two origin categories do not differentiate the patterns. Pattern 1 combines an orientation to the supply side with dominance of the private sector – firms' growth – called Entrepreneurship. Pattern 2 is characterized by an orientation to the demand side and also leaning to the private sector – consumption and use of private credit – designated as Consumerism. Pattern 3 is also related to the demand side but in this case related to the public sector's influence; it was denominated Stabilization because it combines the drive for wages growth with a concern vis-à-vis the reduction of consumption's capacity. Finally, group 4 combines the influence of public sector's supply with the defense of public spending reduction – Economic Nationalism.

< Figure 14 about here >

5. Patterns and types of municipalities

There are differences by cluster (χ^2 =45.012, p<.05), gender (χ^2 =12.111, p=.007) and schooling (χ^2 =32.054, p=.06), but not by age and income (Table 9). The associations between these variables are shown in Figure 15. The cluster "In development" is associated both to Entrepreneurship and Consumerism. The cluster "rural-urban" is particularly associated with Economic Nationalism. The "urban" cluster has associations with both the patterns of Economic Nationalism and of Stabilization, while the rural cluster links only with the latter (Figure 15).

< Figure 15 about here >

Women are associated with patterns of Entrepreneurship and Economic Nationalism while men are closer to Consumerism. Regarding education, extreme levels (1-4 years and graduate) are associated with consumerism, intermediate levels related to Nationalism and Economic Stabilization and finally Entrepreneurship is connected to individuals with degrees.

A systematization of socio-demographic characteristics is present in Table 9.

< Table 9 about here >

6. Patterns and economic values

The economic values reported by the participants have a mean value significantly different by pattern (Table 10) and the profile of each pattern in the four components of economic values found is shown in Figure 16.

< Table 10 about here >

< Figure 16 about here >

On "conservatism" there are significant differences between the pattern of consumerism and the other three patterns (p <0.05). On "alienation" there are significant differences between the pattern of consumerism and entrepreneurship (p <0.01). On "defense of the economic system" we note significant differences between the patterns economic nationalism and stabilization (p

<0.05). On "pro-business" the pattern economic nationalism presents significant mean differences with either the pattern stabilization (p <0.05), or the pattern of consumption (p <0.001).

There is an association, on the one hand, between conservatism and alienation and, moreover, between pro business and defense of the economic system.

7. Economic values and categories of Municipalities

As for municipalities, those belonging to rural and development clusters are more associated with the values conservatism and economic alienation. The rural-urban counties have high levels of prevalence with the values pro-business and defense of economic system. With regard to the municipalities of urban type there are average levels below the overall average, and those are clearly identified with each and every of the economic values (Table 11).

< Table 11 about here >

8. Patterns, Economic values and types of municipalities

To further analyze patterns, economic values and types of counties, we used an analysis designated CatPCA, which is a type of factor analysis allowing the conciliation of quantitative variables with quality variables. Quantitative variables are represented by points that match their categories.

For the positioning of the patters, CatPCA shows that the pattern of consumerism is clearly associated with the values of alienation and conservatism. With the same type of association, although less intense, is also the pattern stabilization.

The patterns that point to Entrepreneurship and Economic Nationalism are mainly associated with pro business and defense of the economic system values, exactly the opposite of the patterns of Stabilization and Consumerism.

Continuing the exploration of the association between economic values, patterns and types of

counties, let us assume now that we want to test the model of moderation. Does the variable type of municipality convey any influence or effect on the relationship between patterns and economic values? We will then test the model presented in Figure 17.

< Figure 17 about here >

It is only interesting to search whether the effect of interaction is significant. Through the results obtained with a econometric analysis using the General Linear Model (GLM) we have concluded that there is a moderating effect (interaction) to the economic values: Conservatism (F = 2405, p=0.011) and Pro-business (F=2,097, p=0.027). The profile plots (Figures 18 and 19) allow the assessment concerning the contours of the interaction effect in each of the two situations with significant effect.

< Figures 18 and 19 about here >

Returning to the relationship between economic values, patterns and types of counties we add the economic behaviors (Q5 – you usually save?, Q10 – have you already bought goods and services on credit?, Q17 – do you have investments?). To this end a further analysis of the CatPCA type (Figure 20) was made. Given the configuration already obtained in previous CatPCA, it can be seen that the buying behaviors involving "have done investments", "having borrowed" and "have savings" arise associated with the profile that combines the values of pro-business and defense of the system to the patterns of pro-investment and counter-investment and also the predominance of municipalities of rural-urban type.

< Figure 20 about here >

The absence of those economic behaviors is mainly associated with another profile. The patterns of contra-consumption and pro-consumption are more associated with the denial of the economic behaviors in question. It should be noted also the agreement with values such as alienation and conservatism. This seems to be the profile of rural and developing municipalities.

9. Concluding remarks

This paper sought to identify relationships between evaluative orientations, beliefs and economic behaviours of agents on the one hand, and differences in levels of regional development, on the other.

The empirical analysis was based on a survey of almost a thousand people, living in a set of Portuguese municipalities (and the respective parishes) who were selected to constitute a representative sample of the whole nation, according to a typology rural / urban and according to the level of development, measured by GDP per capita.

We identified patterns considering a higher prevalence either for the supply side or for the demand side, as well as orientation predominantly for the State or for the market. This methodology allowed us to construct four clusters, corresponding to "stabilization", "economic nationalism", "entrepreneurship" and "consumerism". These clusters were then framed in a context of spatial analysis, and crossed with different typologies at this level of analysis.

A key finding is the observation that the parishes called "rural", "rural-urban" and "urban" show an orientation that emphasizes the role of the state (although in general not very marked), while the parishes "in development "(i.e., those belonging to regions which have recently gone through a strong structural change) oriented markedly to the market.

Another important conclusion, and also somewhat unexpected, is that the "rural" parishes are markedly consumerist, while the "rural-urban" are dominated by the orientation for the supply. Interestingly, both "urban" and "developing" regions occupy, as to this criterion, an intermediate position. In fact, the cluster "in development" is associated with both entrepreneurship and consumerism. The rural-urban cluster is particularly related to economic nationalism. The urban cluster has associations with both patterns of "economic nationalism" and of "stabilization" while the rural cluster relates only with the latter.

Regarding the intersection with the values we verify that the pattern of consumerism is clearly associated with alienation and conservatism values. With the same type of association, though less intense, shows the pattern of stabilization. The patterns pointing to entrepreneurship and economic nationalism are mainly associated with pro-business and defence of the economic system values, exactly the opposite from the patterns of stabilization and consumerism.

Concerning the moderation by the typology of counties, we found that the values of pro-business and defence of the system are linked with the municipalities of rural-urban type. The absence of these economic behaviours is mainly associated with the other profile. It is worth noting also the agreement with values such as alienation and conservatism. This seems to be the profile of rural and developing counties.

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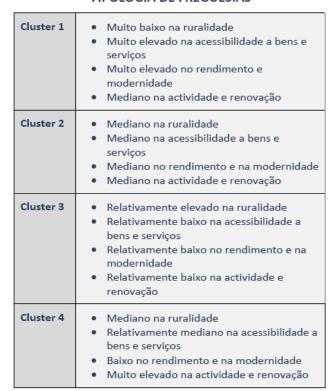
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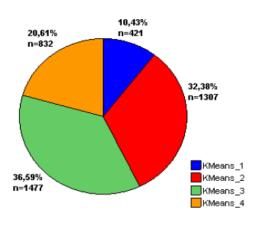
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Appendix: Figures and Tables

Figure 1: Typology of perishes

TIPOLOGIA DE FREGUESIAS³





K-Means					
	N	%			
1 Cluster_1	421	10.4			
2 Cluster_2	1307	32.4			
3 Cluster_3	1477	36.6			
4 Cluster_4	832	20.6			
Total	4037	100.0			

Table 1: Number of perishes (total and sample) by cluster

Cluster	Nr. Perishes Total	%	Nr. Perishes Sample
Cluster 1	421	10,4	20
Cluster 2	1307	32,4	60
Cluster 3	1477	36,6	68
Cluster 4	832	20,6	39
Total	4037	100,00	187

Table 2: Sample details

A	В	С	D	Е	F	G
CLUSTER	Population by cluster	% of representative national sample	Nr. Per. Sample	Nr Indiv Sample by Perish	Nr Perishes by Municipality	Nr Municipalities Sample
Cluster 1	4,1Thous.	400	20	20	2	10
Cluster 2	3,3 Thous.	330	60	5	6	10
Cluster 3	1,1 Thous.	110	68	2	15	5
Cluster 4	1,5 Thous.	150	39	4	8	5
TOTAL	10 Thous.	1000	187			30

Table 3: Municipalities by cluster

REGIÃO	CLUSTER 1	CLUSTER 2	CLUSTER 3	CLUSTER 4
NORTE	Porto Matosinhos	Viana do Castelo Vila Real	Ponte da Barca Mirandela	Ponte de Lima Amarante Esposende St Maria Feira Oliveira Azemeis
CENTRO	Coimbra	Guarda Figueira da Foz Abrantes	Sertã	
LISBOA	Lisboa Odivelas Cascais Almada Setúbal	Montijo Cartaxo		
ALENTEJO		Montemor-o-Novo Beja	Portel	
ALGARVE	Portimão Faro	Silves	Alcoutim	

Table 4: Questionnaires by cluster e Nr. of respective municipality

Cluster	Municipality	Questionnaires
1 Urbano	10	359
2 Rural-urbano	10	291
3 Rural	5	147
4 Desenvolvimento	5	151
Total	30	948

Table 5: Distribution of individuals by municipality

Concelho	Cluster	Questionnaires
Abrantes	2	25
Alcoutim	3	28
Almada	1	41
Amarante	4	27
Beja	2	31
Cartaxo	2	31
Cascais	1	41
Coimbra	1	37
Esposende	4	32
Faro	1	28
Figueira da Foz	2	30
Guarda	2	28
Lisboa	1	39
Matosinhos	1	38
Mirandela	3	33
Montemor-o-Novo	2	26
Montijo	2	37
Odivelas	1	40
Oliveira de Azeméis	4	31
Ponte da Barca	3	30
Ponte de Lima	4	30
Portel	3	26
Portimão	1	26
Porto	1	35
Santa Maria da Feira	4	31
Sertã	3	30
Setúbal	1	34
Silves	2	26
Viana do Castelo	2	33
Vila Real	2	24
Total		948

Table 6: Components extracted by the economic values' scale

Componente	1	2	3	4
q1.17 The average worker is receiving its fair share of business	,722	-,070	,006	,086
q1.18 The labor unions are too powerful	,681	-,165	,011	,201
q1.12 Taking care of the poor and sick is a role of families and the Church is not the responsibility of the Government	,637	,321	,096	-,110
q1.11 A person who can not get a job can only blame itself	,582	,074	,207	-,228
q1.15 It is not the role of government to control commodity prices	,526	,313	,088	-,022
q1.9 it is not worth worrying about the state of the economy because I can not do anything about it	,508	,465	-,123	,051
q1.14 Succeeding in life is mostly a matter of luck	,104	,754	,001	-,028
q1.13 The unemployed should not feel guilty for their situation: blame the economic system	-,021	,742	-,032	,212
q1.2 People who blame society or others for your money problems are shirking their responsibility	,057	-,075	,789	-,029
q1.3 Our economy needs more people willing to save for the future	-,056	,100	,709	,109
q1.1 If workers want higher wages they must work harder and produce more	,216	-,082	,613	,132
q1.6 The Government should listen more to businesses and entrepreneurs have to say	-,017	,032	,077	,833
q1.8 The companies could employ more people and produce more if they had not to pay a large amount of taxes	,040	,133	,125	,784

Table 7: Correlations between economic values

		Defense of the econon	nic
	Alienation	system	Pro-business
Conservatism	0,368*	0,184*	0,006
Alienation	1	-0,029	0,137*
Defense of the economic system		1	0,172*
Pro-business			1

p<0,001

Figure 2: Absolute frequency of responses to the problem of unemployment by the Government

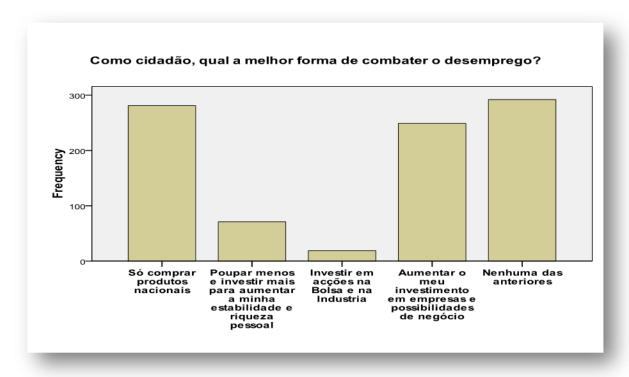


Figure 3: Absolute frequency of responses to the problem of unemployment by citizens

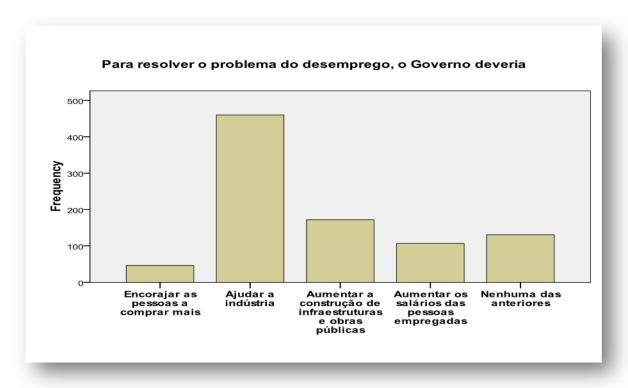


Figure 4: Absolute frequency of responses on the influence of the savings in unemployment

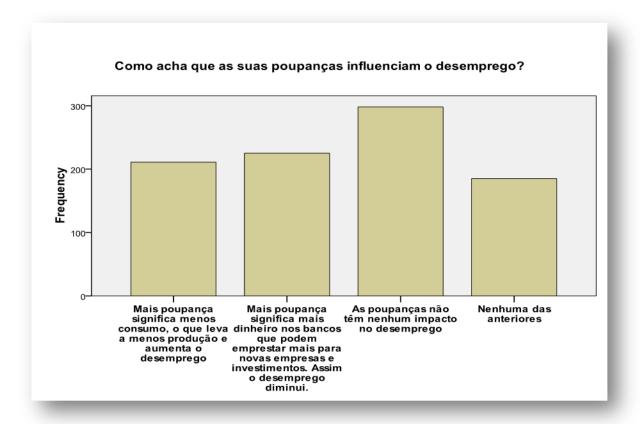


Figure 5: Absolute frequency of responses on fighting inflation

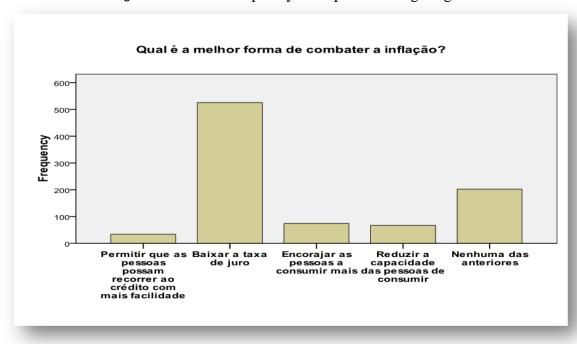


Figure 6: Absolute frequency of responses on government influence on the country situation

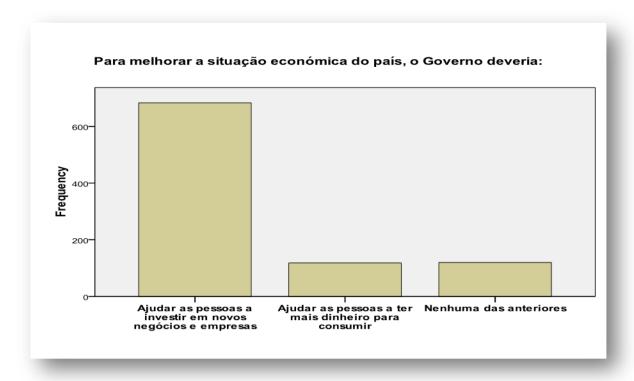
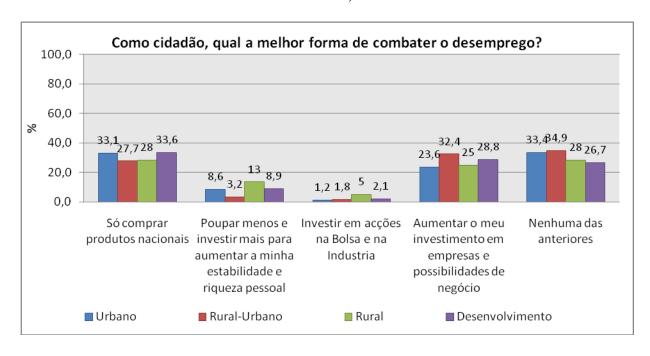
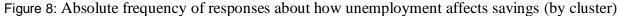


Figure 7: Absolute frequency of responses on how citizens can combat unemployment (per cluster)





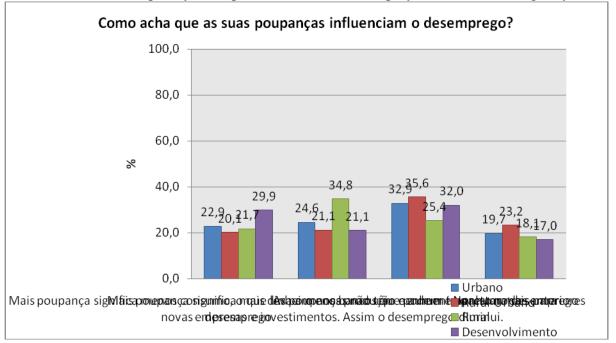


Figure 9: Absolute frequency of responses about how Affects Unemployment savings (by cluster)

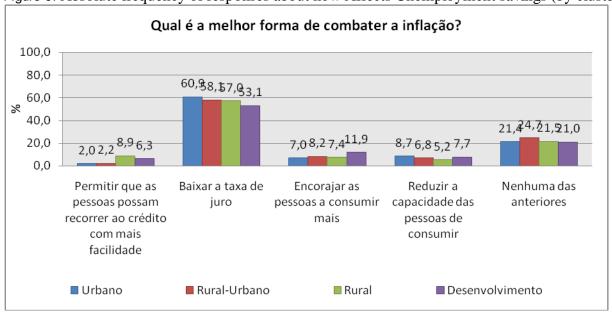


Figure 10: Absolute frequency of responses on how the Government can improve the economic situation of the country (by cluster)

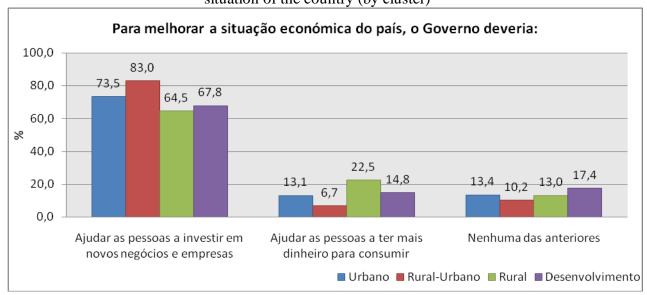


Figure 11: Savings behavior by county

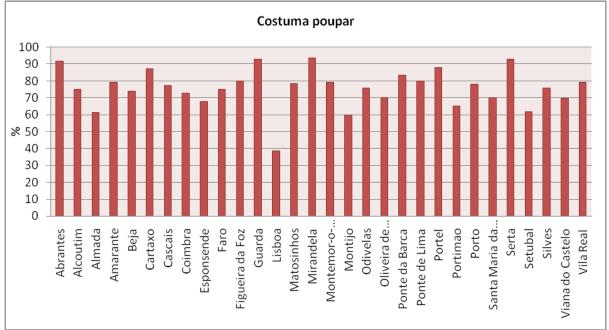


Figure 12: Behavior of credit available by county

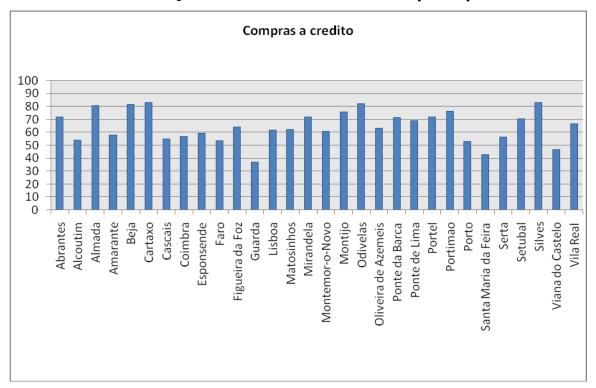


Figure 13: Economic behaviors by cluster

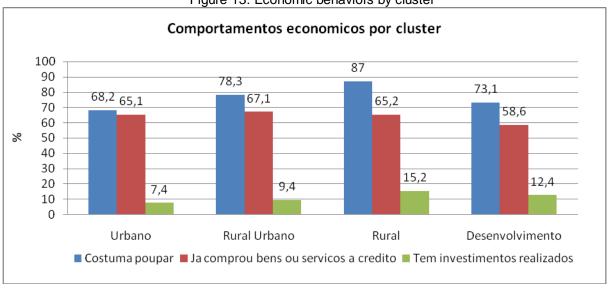
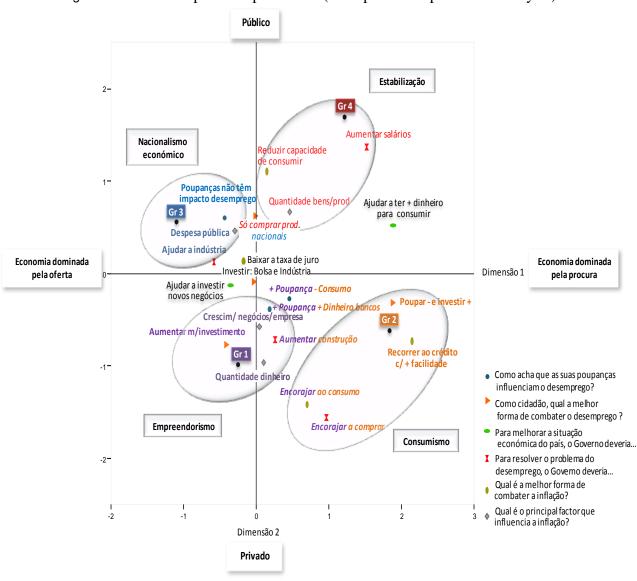
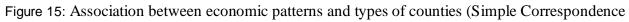


Table 8: Distribution of the four patterns

		N	%
Padrões	Empreendorismo	284	30.9
	Consumismo	1 08	11.8
	Na cion al ismo e con ómico	402	43.7
	Estabilização	125	13.6
	Total	919	1 00 .0

Figure 14: Economic patterns: profiles of (Multiple Correspondence Analysis)





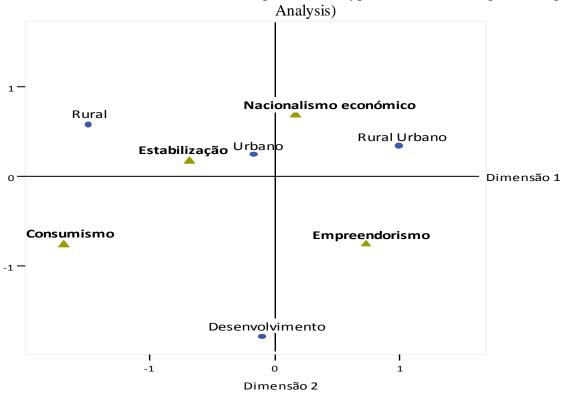
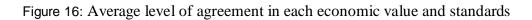


Table 10: Crossing between standards and economic values

		Р
Conservadorismo * Padrões	F(3, 829) = 5,100	0,002
Alienação * Padrões	F(3, 856) = 4,707	0,003
Defesa do sistema económico * Padrões	F(3, 870) = 4,085	0,007
Pró negócios * Padrões	F(3, 866) = 7,124	0,000



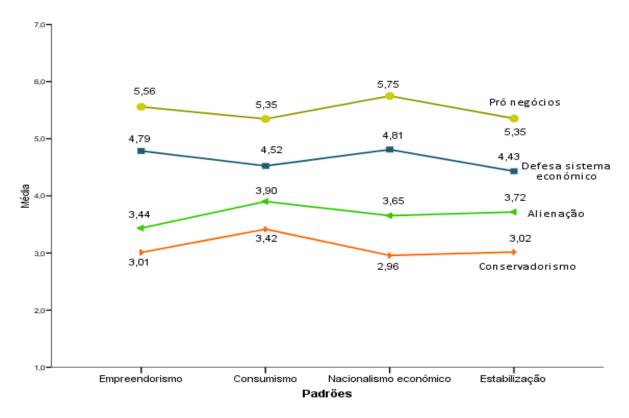


Table 9: Crosses between the four patterns and indicators for the characterization

					Padrõ	es				
		Empreendarismo Consumismo					Nacionalismo económico		Estabilização	
		N	%	N	%	N	%	N	%	
Cluster do	Urbano	99	34.9	42	389	151	37.6	56	44.8	
cancelho	Rural Urbano	107	37.7	14	130	136	33.8	27	21.6	
	Rural	26	92	30	27.8	60	14.9	23	18	
	Desenvolvimento	52	183	22	204	55	13.7	19	15.	
	Total	284	100.0	108	100.0	402	100.0	125	100.0	
Sexo	Feminino	190	686	54	50.5	263	65.9	74	61.	
	Masculino	87	31.4	53	49.5	136	34.1	47	38.	
	Total	277	100.0	107	100.0	399	100.0	121	100	
Idade	<25	54	20.7	32	31.1	79	21.0	25	21.	
(escalões)	25-34	114	437	36	35.0	150	39.8	50	43.	
	35-44	39	14.9	20	19.4	63	16.7	22	19.	
	45-54	37	14.2	11	10.7	47	125	8	7.	
	55-64	13	5.0	1	1.0	33	88	9	7.	
	>=65	4	1.5	3	2.9	5	13	0		
	Total	261	100.0	103	100.0	377	100.0	114	100	
Escolaridade	1º- 4º ano	18	6.5	8	75	27	68	5	4.	
	5°-6°aro	10	3.6	8	75	21	53	9	7.	
	7°-9°ano	43	15.5	24	224	74	18.7	26	21.	
	10° – 12° ano	116	41.9	47	439	202	51.0	60	49.	
	Licenciatura	82	29.6	16	15.0	61	15.4	20	16.	
	Pós-graduação	8	2.9	4	3.7	11	28	1		
	Total	277	100.0	107	100.0	396	100.0	121	100	

Table 11: Economic values bycluster

				Defes a do sis tema	
Cluster do conc elho		Conservadorismo	Aliena ção	eco nómico	Pró-negócios
Urbano	Mean	2,9691	3,5101	4,6797	5,4880
	N	324	330	333	332
	Std. Deviation	1,09013	1,22291	1,22235	1,13905
Rural Urbano	Mean	2,9645	3,5331	4,6619	5,7806
	N	265	277	282	278
	Std. Deviation	1,05160	1,18575	1,12098	,93877
Rural	Mean	3,2333	3,8179	4,9358	5,6131
	N	126	130	135	137
	Std. Deviation	1,12449	1,23131	1,12450	1,17572
Desenvolvimen to	Mean	3,2358	4,0000	4,7535	5,3239
	N	134	143	142	142
	Std. Deviation	1,19141	1,38401	1,23686	1,31844
Total	Mean	3,0490	3,6424	4,7246	5,5726
	N	849	880	892	889
	Std. Deviation	1,10507	1,25255	1,18076	1,12810

Padrões

Valores Económicos

Tipo de concelho

Figure 18: Average level of agreement with the economic value of the second standard economic conservatism, tempered by the typology of counties

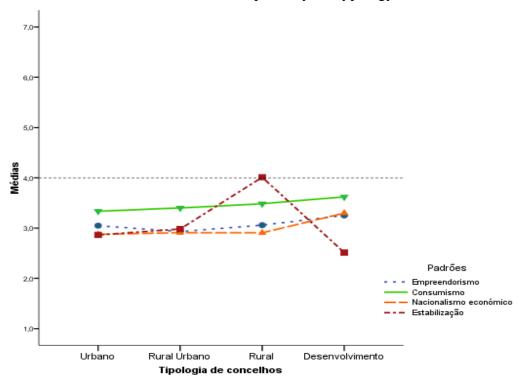


Figura 19: Average level of agreement with the pro-business economic value, according to economic standards, moderate by the typology of counties

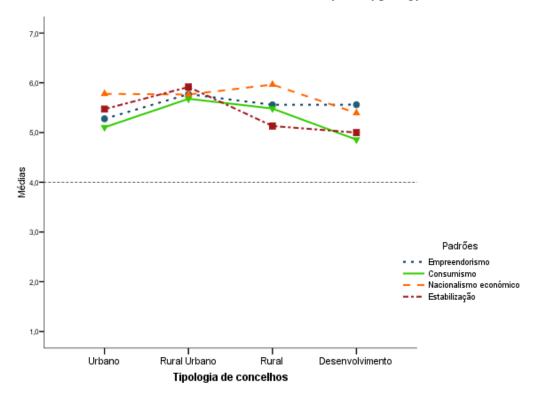


Figure 20: Association between economic values, patterns, economic behaviors and types of counties (Principal Component Analysis for Categorial Data (CatPCA)

