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Full Length Research Paper

Country Size and Determinants of Economic Growth: A Survey with Special Interest on Small States

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This paper surveys the literature on country size and economic growth, focusing a research on small states. The paper first analyzes theoretical and empirical effects of country size on economic growth. Furthermore, the paper surveys some empirical studies on the determinants of economic growth, with special reference to small states. The review shows that there is a theoretical superiority of the disadvantages associated with the small size, but there is no consensus among empirical studies of the effects of country size on economic growth. And, there's a certain consensus in identifying the geographic distance from major markets as a principal determinant of economic growth on small states.

JEL classification: O40, O50

Keywords: Country Size, Small States, Economic Growth.

INTRODUCTION

The purpose of this paper is to analyze the impacts of country size in economic growth and the determinants of economic growth, with a particular interest on small states, by conducting a theoretical and empirical literature review.

Studies on small states emerged during the massive decolonization period (1960's). One of the first debate with specific issues about small states occurred in 1962, when the Institute of Commonwealth Studies initiated a series of seminars at the University of London. These seminars took place at regular intervals over a period of two years, which introduced more than 20 works related to the common problems faced by small states (Lockhart, 1993). These works were later edited by Benedict (1967) in his book "Problems of Smaller Territories", constituting one of the first works on small states. Since then, there have been several studies published and numerous debates and conferences focusing on small states. And, there are some divisions among economists

about the key factors which explain the economic growth in these states.

There are different criteria used to define country size (micro, small, medium or large) and the most common are: population, area and GDP. Among those, the size of population is the most common. However, there is no consensus on the limit which defines small states. As suggested by the Commonwealth Secretariat (defined in the report "The Future for Small States: Overcoming Vulnerability", published in 1997) small states are defined as those with population less than 1.5 million people, and includes some countries in this group, such as Jamaica, Lesotho, Namibia and Papua New Guinea, with a higher number of inhabitants, but sharing the same features as small states. It is not lucid by the literature why there is a limit of 1.5 million people or other limit to define small states.

Using this limit, we find 45 small states with a total of 20 million people, which is less than 0.4% of the total population of developed countries. We find micro-states, such as Nauru, Palau, Cook Islands (just over 20,000

people each) to Botswana, Gabon, Gambia, Guinea-Bissau (over 1 million people each).

Several studies indicate small states compared to larger states as the most disadvantaged, due to the negative effects of reduced dimension in the economic growth process. But, paradoxically, many small states have a high level of economic growth and they are part of the group of countries with the highest GDP per capita worldwide.

Theoretical studies indicated the difficulty to benefit from economies of scale in various goods and services as one of the main disadvantages associated with small size and stronger social cohesion is appointed as the main advantage in the growth process. However, empirical studies do not take a common position in defining the effect of country size in the process of economic growth. On the set of determinants of economic growth on small states, there is a certain consensus among the existing works in identifying the geography (distance from the country to the major markets) as the main factor to explain the economic performance of small states.

Therefore, this paper is based on the following structure: the second chapter provides some theoretical studies on the main constraints and benefits associated with country size on economic growth; the third chapter reviews the main empirical findings on the determinants of economic growth, with a focus on small states; and, the last chapter is dedicated to the conclusion of this literature review.

Theoretical effects of country size on economic growth

The theoretical literature suggests several factors, mechanisms and features that can explain the economic growth of a country associated with the size. Armstrong and Read (2003) consider that characteristics of small states have important implications for their growth and development strategies, since it restricts the structure of domestic economic activity and the autonomy of economic policies. Since this study focuses on small states, we will analysis the benefits and constraints of small country size.

Constraints of small size

Various constraints are appointed to the economic development of small states, due to their reduced size. In dichotomous terms, some of these constraints can be seen as a benefit for large countries. We emphasize the following:

A high per capita cost of some goods and services

The high per capita cost of some goods and services are connected to the indivisibility of various public goods and services, political costs and administrative structures. This indivisibility is indicated as a barrier to international competitiveness of small states (Bray, 1992; Briguglio, 1995; Armstrong and Read, 2003). According to Srinivasan (1985), in the small states the cost to create additional capacity for thermal power generation is on average 65% higher compared to large states. This value can be reduced to 20% if the population density rate is high. In order to mitigate the adverse effects of that indivisibility, the author suggests sharing with neighbor countries, some cost of infrastructural activities such as the production of electricity, education, communication and health.

The narrow structure of domestic output, exports and export markets

The strong geographical concentration of exports and the limited diversity of production and exports on small states are justified, in part, by the small domestic market. The small domestic market does not support multiple companies producing the same goods and services, which leads to the formation of monopolies or oligopolies, implying less diversified economic structure than the ones in large states (Briguglio, 1995). Castello and Ozawa (1999) consider that the small size of workforce restricts the possibility of differentiation in the labor market and leads to slow segmentation of business and professions that limits domestic production. The small size of the market (in terms of area and population) may lead to less diversification of raw materials and resources which limits the production and export (Castello and Ozawa, 1999; Commonwealth Secretariat, 2014). The country is subject to an increase in the exposure to external shocks when there is a geographical concentration of exports and limited diversification of exports.

High national and international transport costs

The high domestic (especially in cases of archipelago states) and international (for cases of island states and located far from major markets) transport costs influence negatively the competitiveness and the productive structure of small states. High transport costs can act as natural barriers to foreign trade (Srinivasan, 1985). Small states are heavily dependent on foreign trade for economic development and social progress. Thus, the distance from major markets implies expensive transport costs for imports and exports (Commonwealth Secretariat, 2014). According to Briguglio (1995), the distant location of the principal markets may involve additional costs related to delays and uncertainties in supply and storage costs (the producers will need to have large stocks of goods as the air and maritime trafficking are not frequent). The high international shipping costs can lead to geographic concentration of exports.

High environmental, economic, social and political vulnerability

The environmental vulnerability (countries' susceptibility to natural disasters) is related to the location of countries (small or large) in areas subject to these disasters. However, according to Srinivasan (1985) and Briguglio (1995) the greater vulnerability of small states is due to the disproportionate effect (in terms of unit area and per capita cost) that a disaster of the same intensity may have in a small country compared with a large one. Moreover, according to Alesina et al. (2005), on large countries, there may be resource transfers from one region (not affected) to another region (the affected), but on small states, the disasters often influence the whole country and hence it is necessary to appeal to external aid. The economic vulnerability (sensitivity of an economy to the adverse impacts resulting from external shocks outside the control of the country) of small states for Downes and Mamingi (2001) and Armstrong and Read (2003) is justified by the high degree of trade openness, small domestic market, high per capita cost of installation and maintenance of social infrastructure, exports concentration and little production diversification. Downes and Mamingi (2001) relates social vulnerability (resulting from the influence of external criminal and cultural activity in domestic social values) of small states to the incapacity to withstand the external cultures and social influences that have proven to be very costly in

financial and human areas in these countries. Political vulnerability (refers to the influence in the political and diplomatic aspects) result from direct or indirect dependence of small states in the political intentions of large and powerful countries about trade and other assistance (Srinivasan, 1985; Castello and Ozawa, 1999; Downes and Mamingi, 2001).

The difficulty to benefit from economies of scale in various activities is indicated as the main handicap associated with small size. However, Backus et al. (1992) observes that there is not a strong connection between GDP per capita and measures of scale effects, but they identified a significant relationship between growth of GDP per worker and the scale effects. In this context, the scale effect is more observable at the micro level than at the macro level. Jones (1995) found an inconsistency of endogenous growth models (AK and R&D) in the long term, in time series.

Benefits of small size

Armstrong and Read (2003) defend that any potential advantages associated with small size are lower than the disadvantages, thus implying that small states face a greater challenge in generating and sustaining economic growth compared to large states. Some of those benefits can be seen as constraints in the large states, in dichotomous terms. The main benefits allied to the small size are:

Strong social cohesion

Castello and Ozawa (1999) and Laurent (2008) consider small states more open to changes, with greater political integration, with more flexible institutional systems and better prepared to face the uncertainties and external shocks, due the prevalence of greater solidarity and social cohesion compared with large countries. For Bray (1992) and Castello and Ozawa (1999) small states tend to develop a very integrated society with a very complex relationship network, due to the low geographical distance and higher frequency of face-to-face contact. This allows a high degree of interpersonal communication and efficient flow of information between government and business, which are important to strengthen the required relationship between the two sectors. These behaviors have positive impacts on economic growth (Armstrong and Read, 2003).

Homogeneity of population

Alesina and Spolaore (1997) and Alesina (2003) argue that larger, population may involve less homogeneity, because the cultural average and the distance between the preferences of individuals probably have a positive correlation with the country size. This implies that the public choices are close to the average individual preferences in a small state. The stability of many national governments had been threatened by serious domestic conflicts, associated with racial, religious and linguistic diversity. Hence, greater social homogeneity involves more stable government.

High degree of foreign trade, high propensity for human capital formation and location in favorable regions

Armstrong and Read (2003) believe that despite the disadvantages associated with small states, they have characteristics that allow high rates of economic growth, such as high degree of foreign trade, high propensity for the formation of human capital and location in favorable regions. The high level of external openness requires

small states to follow growth policies oriented to exports and thus avoid the negative effects associated with industrialization policies for import substitution. In addition, imports of goods and services with a high technological level have beneficial implications on domestic competition and production. The high level of the stock of human capital improves the ability of technological absorption, which is important for small states. Regional integration provides the approach and interaction with other wealthy countries, for instance, increases the inflow of Foreign Direct Investment (FDI).

The strong social cohesion is mentioned as the main benefit resulting from the small size. However Briguglio (1995) argues that this great cohesion on small states can create administrative problems, in the sense that people know each other well and are related very often. And, this may not allow the impartiality and efficiency in public administration and interfere with the promotion and recruitment policies of the workforce based on merit. Armstrong and Read (2003) point out that the economic behavior on small states can be negatively influenced by family ties or nepotism, due to the close relationship between decision makers and the constituents.

Alesina and Spolaore (1997) and Alesina (2003) studied size impact through the tradeoff between the benefits of size (economies of scale, military strength, etc.) and cost of heterogeneity of preferences, cultures and population attitudes, and they concluded that country size is not relevant for growth if there is free international trade. However, if the markets are closed, the large countries perform better. Robinson (1960) suggests that the adaptability of small states and the high degree of social homogeneity can help to overcome the negative effects of the small domestic markets.

Thus, the constraints and benefits that are associated to size imply that the growth strategies in small and large states must be different. Laurent (2008) argues that small states should seek to overcome the disadvantages associated with their smallness through globalization and large states should focus on economies of scale, to develop an endogenous domestic growth. In addition, Armstrong and Read (2003) suggest that small states should follow growth policies related to activities at small scales and with great emphasis on human capital, such as the services sector.

Determinants of economic growth

In recent decades, several theoretical and empirical studies have been tried to explain the differences on economic growth between countries or groups of countries. The lack of consensus on the best model or methodology to explain the economic growth and the use of different proxies to measure the same factor, have led to empirical results often contradictory. However, empirical studies identify a group of variables that have had almost the same behavior on economic growth, as the cases of: initial level of GDP per capita (negative effect), human capital (positive effect) investment (positive effect) and growth rate of the population (negative effect).

We present in this section some empirical studies on the determinants of economic growth, particularly the work that is dedicated to small states. Thus, we divide the literature review into two groups. First, the studies that analyze the determinants of economic growth on countries in general and second, studies that focused on the determinants of economic growth on small states.

Determinants of economic growth on countries in general

There are several studies on the determinants of economic growth and differ from the applied methodologies and models, groups of countries analyzed and time period considered. Some of these works:

1) Grier and Tullock (1989) investigated the economic growth of 113 countries in the period 1951-1980. The authors divided the 113 countries into two main groups, the first one consists of 24 OECD countries and the other 89 by countries outside of the OECD, they called ROW and this group was subdivided by continents: Africa, the Americas and Asia. They concluded in each group the following about the behavior of the variables on growth rate of GDP per capita: The growth of population is positive and significant in the Americas, ROW and OECD, and insignificant in Africa and Asia; The initial level of GDP per capita is positive and significant in Africa, Asia and ROW, and negative and significant in OECD and insignificant in the Americas; The average inflation is negative and significant in Africa and ROW and insignificant in Asia, and positive and insignificant in the Americas and OECD; The government consumption is negative and significant in the Americas, Africa, ROW and OECD, and positive and significant in Asia; The volatility of GDP is positive and significant in Africa, ROW and OECD, and negative and insignificant in the Americas and Asia; and, the inflation volatility is negative and significant in the Americas, OECD, ROW and Asia, and positive and insignificant in Africa.

2) Barro (1991) analyzed the determinants of economic growth in about 98 countries in the period 1960-1985. Barro concluded that the growth rate of GDP per capita is negative and robust related to the initial level of GDP per capita, only when it is considered the level of human capital in the model. The author found a positive relationship between the growth rate of GDP per capita and the initial human capital (measured by enrollment rates of school). On the other hand, he identified negative relationship between the growth rate of GDP per capita and distortion in prices, political instability, government consumption (excluding the cost of education and defense) and dummies for Sub-Saharan Africa, Latin America and socialist economic system. The relation between growth and the amount of public investment was low. The author also verified that countries with high levels of human capital have low fertility rates and high physical investment (% of GDP), and private investment is influenced negatively by the government consumption.

3) Levine and Renelt (1992) analyzed the robustness of more than 50 variables identified as determinants of economic growth, in 119 countries (the major oil exporters are excluded) for the period 1960-1989. They used the Extreme-Bounds Analysis process (EBA) to test the robustness of the estimated coefficients. Due to the requirement of the test, few variables were identified as robust. They only found a strong positive correlation with the growth rate of investment and the initial enrollment rate of secondary school, and negative and robust correlation with the initial level of GDP per capita. The remaining variables were identified as fragile, that is, the set of expenses and fiscal policy variables, monetary policy indicators and political stability index, have no robust relationships with economic growth.

4) Sala-i-Martin et al. (2004) selected 67 variables listed as determinants of economic growth and analyzed the strength of the correlation with the growth rate of GDP per capita. The database was formed by 88 countries for the period 1960-1996. The robustness of the variables were tested by using a less exigent test that one

used by Levine and Renelt (1992), Bayesian Averaging of Classical Estimates (BACE), and they found 18 variables with significant and robust correlation with growth rate of GDP per capita and 3 with a marginal correlation (which are: initial density of the population, distortion in exchange rate and population speaking a foreign language). The variables with more evidence were the relative price of investment goods (negative correlation), initial level of GDP per capita (negative correlation) and initial enrollment rate of primary school (positive correlation). Other variables identified with positive and robust correlation are: dummy for East Asia, coastal population density, mining industry and a number of years of trade liberalization. In addition, with negative and robust correlation they recognized: prevalence of rate of malaria, located in the tropical region and dummies for sub-Saharan Africa and Latin America. They also found a negative correlation of economic growth with public investment and consumption, but the result was significant only for certain model.

Determinants of economic growth on small states

The number of studies that have dedicated to identify the determinants of economic growth on small states or group of small states is few. We find authors who analyzed the group of small states in general, others divided the countries according to geographical location and some did individual analyzes of the countries. Some of these works:

1) Armstrong et al. (1998) defined small states that have less than 3 million people. The authors analyzed the variables that explain the economic performance of small states in the period 1980-1993. They concluded that tourism (positive impact), financial services (positive impact) and agriculture (negative impact) are the most significant variable in explaining the GDP/GNP per capita of small states. The results also indicate that the economic performance of small states is positively influenced by variables like exportable resources and industrial sector, although the effect of the industrial sector is less significant. The regional location variable plays an important role and the variable insularity does not seem to influence the GDP per capita on small states.

2) Peters (2001) used two different models, Solow and endogenous growth models, to investigate the determinants of economic growth in 12 small states of the Caribbean region in 1977-1996. The author concluded that the main drivers of the growth are: economic opening, human capital accumulation and access to information. He also found a positive and significant relationship of the growth rate of GDP per capita with investment and life expectancy, and negative and significant relationship with inflation and population growth rate. The effect of government consumption was not very distinct and the financial sector had no impact on the economic performance of states in the region. Peters relates the result of the financial sector to its early development in the region.

3) Bertram (2004) studied the economic performance of 60 small island states in 1970-1999. He emphasizes that the level and the growth rate of GDP per capita on small states depend directly on the level and growth rate of GDP per capita and the strength of political ties with the main metropolis. He defined small states with the limit of 3 million people. The author confirmed is basic assumptions, namely political integration and the level and growth rate of GDP per capita of the main metropolis have positive and robust influence on the level of GDP per capita of small island states.

4) Armstrong and Read (2006) studied economic behavior of small states, and they defined small states with less 5 million inhabitants. The authors focused the research on the countries, geographical characteristics and used cross-section data for 2001. They concluded that Gross National Income (GNI) per capita have a negative and significant relationship with the agricultural sector, distance from major markets and sovereignty country and, on the other hand, a positive and significant relationship with financial services, tourism and resources. He also identified negative impacts of mountain, islands and landlocked and positive effects of industry and insularity in GNI per capita, but without statistical significance. The authors link the negative effect of landlocked variable to the fact that most of these countries are far from large markets and located in poor regions.

5) Another study on the determinants of economic growth on small states is written by Yang et al. (2013). The authors studied empirically 45 small states in 1992-2008. They concluded that the geography factor (distance from major markets) is the main determinant (significant negative) of economic growth on small states. The authors identified a positive and significant relationship of growth rate of GDP per capita with exports, investment and political stability. On the other hand, the variables volatility of GDP, population growth, foreign aid and initial level of GDP per capita had a negative and significant relationship with growth rate of GDP per capita. The tests indicated that the ratio of external aid had no reverse causality with the growth, i.e., slower growth does not lead to greater foreign aid. They assumed that this negative impact of foreign aid is related to the "Dutch Disease" effect.

6) Tumbarello et al. (2013) analyzed the economic performance of small states located in Asia-Pacific region in 1990-2010, and their results were similar to those presented by Yang et al. (2013). The authors found a negative and significant relationship of growth rate of GDP per capita with public debt, initial level of GDP per capita, GDP volatility, government consumption and distance to the nearest continent, and a positive and significant relationship with openness to foreign trade and education. They identified the distance to the nearest continent, as the main variable to explain the difference in economic performance among small states, followed by government fixed costs, capacity constraints, smaller opening to foreign trade and increased volatility of GDP.

Others studies explain the economic growth on small states, but the factors are analyzed separately:

- Tourism is mentioned in several studies as being one of the most important for the growth process on small states, particularly small island states. Narayan et al. (2010) found a positive and robust impact of tourism on economic growth of four Pacific islands. Seetanah (2011) also identified positive and significant impact of tourism on economic growth of 19 island states (18 are small states). The author found that the causal link between tourism and economic growth is bidirectional. Apergis and Payne (2012) similarly concluded that there are two-way causal relationship between tourism and the GDP per capita of nine small Caribbean states, in the short and long term.

- Another factor that has high importance in determining economic growth on small states is remittance. Jayaraman et al. (2011) found a positive and robust effect of remittances in two small Pacific states (Samoa and Tonga). This impact occurs via increased liquidity in the banking system, which will increase the credit to the private sector. Feeny et al. (2014a) found a

significant positive relationship between remittances and economic growth on Small Island Developing States. Sami (2013) concluded that there is an important causal relationship in the short and long term, between remittances and economic growth and banking industry in Fiji.

- FDI is cited as a major driver of growth on small states in some studies (Parry, 1988; Read and Driffield, 2004). Empirical studies on the impact of FDI on economic growth of small states are scarce. Read and Driffield (2004) justify this scarcity by the fact that in absolute terms the FDI flow to small states is very low and there is a great limitation of data, i.e., statistics data exist only for a limited number of small states, which creates a bias in a sample selection. However, Feeny et al. (2014b) also conclude that FDI has a positive and significant effect on economic growth of small Pacific states. Jayaraman and Choong (2010) obtained strong empirical evidence of a positive and significant relationship in the short and long term between FDI and economic growth in Vanuatu. Jayaraman and Singh (2007) concluded that there is a positive and significant effect of FDI on job creation and a one-way causal relationship between FDI and GDP in the short term in Fiji.

Therefore, we concluded that the variables identified as basic (like initial level of GDP per capita, education, population growth and investment) in explaining economic growth have statistical and economic behavior similar in the group of small states and states in general. The lack of consensus on the determinants of economic growth on small states and on states in general seems to be influenced mainly by groups of countries in the analysis and the methodology used.

However, we note a certain consensus among the studies in identifying geographical variable (distance from the main market) as the main determinant of economic growth on small states. This may be related to strong positive impact of foreign trade, FDI, remittances and tourism in the economic growth of small states. The greater the distance from the main market, the higher will be the costs of exports, imports, tourism, foreign investment, and emigration. The higher costs as it is mentioned would complicate the competitiveness of exported products and constitute disincentives to foreign investment and tourism. Other factors important in explaining economic growths on small states are political and economic ties with the main metropolis and agriculture activity. The insularity is considered theoretically a large disadvantage, but through empirical studies, it is found that this variable is not statistically significant for economic growth. Another fact to take into account is the insignificant impact of government consumption per capita on economic growth of small states, despite the high value of this variable.

CONCLUSION

This survey focused on two main points: first, some theoretical studies of countries size effects on economic growth are presented; second, some empirical studies on the determinants of economic growth are introduced.

Regarding the first point, we concluded that the theoretical studies are unanimous in identifying small states compared to larger states as the most disadvantaged due to the superiority of the constraints associated with reduced size on economic growth. Despite the numerous theoretical disadvantages of small size, we verified that there is no consensus about the effects of reduced dimension on economic growth. This can be explained by

these hypotheses: the theoretical negative impact of a reduced size on economic growth are insufficient to be significant; use of theoretical and econometric models and data (panel or cross-section) different by several studies, which leads to different results; and, almost all studies face shortage of observations about small states.

Next we did a survey of some empirical studies on the determinants of economic growth and the analysis was focused on small states. The variables identified as basic (initial level of GDP per capita, human capital, investment and growth rate of population) in growth models have the same behavior in the group of small states and states in general. About small states, there is a certain consensus in identifying the geography factor (distance from major markets) as the main determinant of economic performance.

In general, we didn't find studies that have analyzed the impact of size on growth, by comparing in the same work the effects of the determinants of economic growth between small and large states. Therefore, we propose an empirical work to use the same database, proxies, methodology and economic model to compare the effects of some factors in the economic growth of small and large states. This study will analyze whether the differences between small and large states are significant in order to justify a different economic treatment between these two groups of states. As it was seen, one of the causes of lack of consensus on the impact of country size on economic growth is related to the use of different methods, models, databases and periods of analysis, among the studies.

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