

RESEARCH ARTICLE

Governance and attractiveness of FDI: the case of Southern and Eastern Mediterranean countries

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Abstract

This article empirically examines the role of governance in attracting FDI for a sample of ten Southern and Eastern Mediterranean countries over a 15-year period. We have approximated the attractiveness of FDI by governance through an endogenous variable called FDI in relation to GDP. The quality of these variables was tested by the positioning, dispersion and shape indicators and verified the normality of these variables by the Jarque-Berra test and the quality of linear adjustment of each variable with respect to its mean. The empirical validation of the impact of good governance in the attraction of FDI was carried out using the static Panel technique and based on the assumption of the absence of a stationarity problem for the explanatory variables of our model . Homogeneityheterogeneity tests were used to specify the reference model and model the role of governance in the attraction of FDI by a panel with individual effects. The estimation of this model by the Within and GLS procedures yielded significant results.

Keywords: Governance, Attraction of FDI, Static Panel.

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Introduction

There is widespread debate amongst researchers and governments around corporate governance. In the United Kingdom and the United States, the focus is on weaknesses in the market system in terms of the effectiveness of corporate governance. In continental Europe, there is concern that current corporate governance systems are hampering innovation and growth. In Eastern Europe, privatization leads to questions about how private companies should be governed. China is experiencing some forms of corporate governance combining features of the market system with a public ownership regime. In spite of all these debates, the observations concerning the effects of the different systems of corporate governance remain fragmentary. In the area of corporate governance, the facts were swept aside by the judgments.

This article is structured around both parts. In the first part, we will synthesize the main empirical work that has addressed the role of governance in attracting FDI. In the second part, we will try to verify this role from an econometric application on a sample of southern and eastern Mediterranean countries.

Review of Literature

Several studies have attempted to test the impact of governance mechanisms and the choice of financial structure on firm performance (Tong and Tong 2002, Gompers, Ishii and Metrick 2003 and Cremers and Nair 2005, Allen N. Berger, Emilia Bonaccorsi Di Patti 2006 and Lerong He 2008). The review of these studies shows a wide variety of variables used to measure the corporate governance structure. Some work focuses on the right of shareholders to vote (Bethel and Gillian 2002 and Kunz and Angel 1996). Other work is based on the firm's ownership structure to test the impact of governance mechanisms on the firm's value: Hiraki et al (2003), Sung (2003), Chen (2001) and Kumar (2004)) Respectively in Japan, South Korea, China and India.

Recently, the idea of building a governance index that synthesizes all control mechanisms has prompted empirical research to test the effectiveness of a governance structure in aligning the interests of managers Shareholders (for example, Hermalin and Weisbach 2003). The work in this framework focuses on the governance-performance relationship (Gompers, Ishii and Metrick (2003) and Gillan, Hartzell and Starks (2003)). Some empirical results show that a better governance structure results in better performance (Bebchuck and Cohen 2004, Cohen and Ferrel 2004), other research fails to establish a meaningful relationship between the governance structure and its performance. Moreover, research that attempted to establish a relationship between the governance index and the capital structure is very rare (Friedman, Johnson and Mitton 2003, Jiraporn et al., 2004 and Litov 2005). The review of this work shows that some research uses the governance index to measure the level of leadership rooted (Litov 2005) and the level of protection of shareholders' rights (Jiraporn 2004). Others aim, through the construction of a governance index, to test the relevance of the hypothesis that the use of debt and the establishment of a good governance

structure are two substitutable control mechanisms (Burak et al 2005). Similarly, other studies use the governance index as constructed by Gompers et al. (2003) to test the impact of quality of governance on the cost of capital (Klock, Mansi, and Maxwell 2004).

The empirical studies of Jiraporn et al. (2014) and Litov (2015) have sought to test whether "well-governed" firms that are characterized by low agency costs and low levels of asymmetry of information, Make more use of debt to finance their investment opportunities. To make themselves the authors call on the index of governance conceived by Gompers, Ishii and Metrick (2003). These authors classify 24 governance arrangements into five categories: Tactics for Delaying Hostile Bidders, Voting, Protection, Takeover and State Laws. The governance index is constructed as follows: for each company, the authors sum up "one" for each provision that delineates the shareholder's rights (which increases the discretion of the manager). Therefore, the level of index G indicates how low the shareholder's rights are. A high value of index G implies that it is difficult for stakeholders, including external investors, to dismiss a manager or replace the board of directors.

Based on the methodology adopted by Gompers, Ishii and Metrick (2003), Jiraporn et al (2014) examined the impact of the governance structure on the level of total indebtedness. He argued that the size of agency costs between executives and shareholders is likely to be inversely related to the effectiveness of control put in place by shareholders. At this level, the capital structure is linked to agency costs and agency costs, in turn, are associated with shareholder rights. The authors assume that financial choices are influenced by the level of protection of shareholder rights within the firm.

In a first step, Jiraporn et al (2014) proceeded by a single-varied analysis and subdivides its sample into two groups according to the level of the governance index. Companies whose index value is greater than or equal to 14 are placed in the "Dictatorship Portfolio" group, while those with a government index of less than or equal to 5 are placed in the "democracy" group (Democracy Portfolio). Jiraporn (2014) found that firms of the "dictatorship" type are more indebted than those of the "democracy" type. Indeed, the average debt ratio for the "dictatorship" group is 49% whereas it is only 44.36% for the group of firms qualified as "democracy". These results confirm the suggestion that firms with low rights for their shareholders use debt more than firms with good protection of their rights. Jiraporn et al (2014) suggested that its findings support the predictions of agency theory insofar as debt is used as a disciplinary means within firms. In a second step, it adopted a multi-varied regression to test the impact of shareholders' rights on the level of indebtedness. To control the possibility of nonlinearity of the relation, the author included a quadratic relation. The coefficient of the governance index is positive and highly significant, indicating an inverse relationship between the use of debt and the strength of shareholder rights.

In the model that includes the possibility of a quadratic relationship between the level of debt and shareholder rights, the coefficient of the high squared governance index is statistically insignificant, thus rejecting a parabolic relationship. Recently, Litov et al (2015) carried out a study similar to that of Jiraporn et al (2014), taking into account the American context for the period 1990 to 2013. They used the index retained by Gompers et al (2003) to measure

the level of leadership rooted . The higher the value of the G index means the higher the level of rooting of the leader.

Jiraporn et al (2014) classified the total sample into five quartiles according to the level of leadership rooted. Results show that the ratio of debt to book value and market value increases with the level of rooting (the debt ratio rises from 0.485 when G is less than 6 to wait 0.571 when G is greater than 13). These results contradict the suggestion that ingrained leaders prefer a low level of indebtedness. The theoretical explanation of the positive relationship between the level of rooting and the debt decision is based on the endogenous choice of the level of risk taken by managers in an investment policy, depending on the effectiveness of The governance structure in place. In a well-governed environment (WellMonitored), supervised executives agree to undertake risky projects because it is easy to determine the quality of managers (poor quality vs. good quality). Indeed, the effectiveness of governance mechanisms tends to reduce the risk aversion of the manager justified mainly by their human capital and provided incentives to increase target debt levels (Target Ratio).

To test the explanatory power of the governance structure on the change in the debt ratio, Jiraporn et al (2014) adopted a model similar to that established by Frank and Goyal (2003), which aims to test the relevance of the theory Hierarchy of funding. The latter is tested according to the chosen quartiles, which break down the firms according to the degree of rooting of their managers. The author's findings suggest that the Pecking Order theory works better in firms characterized by a high level of roots on the part of their leaders. Indeed, the order of financing followed by these firms is as follows: self-financing, debt and equity as a last resort. Concerning the dynamic relationship between the root level and the debt, the study by Litov et al (2015) showed that an increase in the root index G (such as the insertion of a new disposition Anti-takeover bid) is associated with an average increase of 3.16% in the debt-to-value ratio and 2.25% in the debt-to-market ratio. At the conclusion of his study, Litov et al (2015, p. 12) emphasized an important empirical relationship, namely the causality between the governance structure and debt:

The work of Kale et al (2015) aimed to test the relationship between governance structure and debt as two substitutable control mechanisms for a sample of 2408 US firms. To test the duality of this relation, the authors retained two simultaneous equations. According to the first, these authors sought to examine the relevance of the governance structure as a deterministic factor in the level of indebtedness. The results show that the governance index negatively affects debt (the coefficients vary between -0.0523 and -0.4854 and are significant at the 1% threshold). Through the second equation, these authors tend to examine the deterministic role of debt for the establishment of a governance structure.

The results show that indebtedness negatively affects the governance index (coefficients vary between - 0.0740 and - 0.2013). These results suggest, therefore, that debt and the governance structure are two substitutable control mechanisms. By adopting a dynamic vision, Kale et al (2015) argued that managers reduce their debt levels when faced with an exogenous increase in governance mechanisms . To test this suggestion empirically, the authors carried out a comparative study of the debt levels before and after the imposition of the Sarbanes-Oxley Act in 2002 and the rigorous governance mechanisms

implemented by NASDAQ and NYSE in 2003. The results show that the total debt ratios measured at market value and at book value decline between the periods 1999,2000 and 2001 and 2003. For example, the average debt-to-equity ratio increased from 0,228 in 1999 To 0.195 in 2003, ie an approximate decrease of 14.5%. Friedman, Johnson and Mitton (2003) estimated the relationship between corporate governance and debt level for a sample of 447 Asian, European and Latin American firms. For Asian firms, they found that low corporate governance is associated with high levels of debt. Despite this constructive research, attention to exploring organizational finance to enrich the explanation of the determinants of firms' financing choices remains limited.

In particular, the vein of work on the determinants of the capital structure, although fruitful, neglects the explanatory power of the ownership structure. Pablo de Andrés et al (2006) in this context, their paper have developed responses to the relationship between bank performance and effective supervision of bank agency managers. They considered the question of whether banks with less efficient boards show results that are different from those banks that can direct and advise their managers more effectively, because such differences could be due to weaknesses in different control mechanisms.

Empirical validation and results

In this article, we will analyze the effect of good governance in attracting foreign direct investment (FDI), ie we demonstrate the contribution of good governance in the creation of a Favorable climate for FDI. To do so, we will verify this contribution from a sample of the ten SEMC countries during a study period from 2000 to 2014. Our sample contains the following countries: Algeria, Egypt, Israel, Jordan, Lebanon, Libya, Morocco, Syria, Tunisia, Turkey.

We will use several endogenous and explanatory variables in order to understand the importance of governance on the increase of direct investment abroad. To do this, we approximate the movement of attraction of FDI by governance by the variable explained FDI-GDP. This variable is expressed as the flow of FDI relative to gross domestic product (GDP).

These FDIs represent the net inflows of investments to acquire a sustainable investment in an enterprise operating in an economy other than investment. This variable corresponds to the sum of own funds, reinvestment of profits, other long-term capital and short-term capital. This variable expresses the net inflows of new investment flows into the reporting economy by foreign investors and is divided by GDP. Our endogenous variable is released from the World Bank. The explanatory variables for the attractiveness of FDI are subdivided into variables of governance and macroeconomic variables.

The governance variables are: Infrastructure, Citizen Voice and Responsibility, Political Stability and Absence of Violence, Government Effectiveness, Rule of Law, Regulatory Quality and Fighting Corruption. The macroeconomic variable represents the per capita gross domestic product in constant dollars for the 2010 base year, which measures purchasing power parity and human capital.

The infrastructure (Infr) is approximated by the number of telephone lines per 100 inhabitants, it is a variable that represents the infrastructure in the host country. We obtained this variable from the World Bank and this corresponds to the industrial factor which has a crucial influence in the increase of FDI in a country.

Voice of citizenship and responsibility (VOA) is expressed by the perception of the capacity of citizens of a country to participate in the selection of their leaders, as well as freedom of expression, freedom of association and free media. This VOA has an institutional power and in this work we are based on the works of Kaufman et al. (1999) and Transparency International, to obtain the data base for the period 2000-2014.

Political Stability and Absence of Violence (SPAV) is the probability that the government will be destabilized or overthrown by unconstitutional or violent means. This stability is an institutional variable and is obtained from the work of Kaufman et al. (1999).

Public Service Effectiveness (PPE) is measured the quality of public services, the quality of the public service and the degree of its independence from political pressures, the quality of policy formulation and the implementation and credibility of the public service. Government's commitment to these policies. This CPE is an institutional variable emerging from the work of Kaufman et al. (1999).

The perception of the extent to which agents trust and respect the rules of the company and in particular the quality of the performance of contracts, property rights, the police and the courts as well as The likelihood of crime and violence. This ED is estimated from Kaufman et al. (1999) and represents an institutional factor.

Regulatory Quality (RQ) is the government's ability to formulate and enforce policies and regulations that allow and promote private sector development. This quality is obtained from Kaufman et al. (1999). Fight against corruption is approximated by the capacity of the government to formulate and implement policies and regulations that enable and promote the development of the private sector.

Human capital (HC) is measured by the enrollment rate in secondary education. This capital is the commercial factor of attractiveness of FDI. Our database contains two dimensions: a temporal dimension spanning 15 years and an individual dimension of the ten SEMC countries. For this purpose, we will use advanced econometric techniques to estimate these individual-temporal data.

We will use position, dispersion and form indicators to analyze our data base for our sample of SEMC countries which includes: Algeria, Egypt, Israel, Jordan, Lebanon, Libya, Morocco, Syria, Tunisia, Turkey during a study period from 2000 to 2014. Our database contains nine variables: FDI-GDP, VOA, STAB, GOV, QUAL, STATE, CORR, INF, CH, GDP. From the position indicators (see table 1 in Appendices), we can see that the averages are negative for the explanatory variables of political stability, citizen voice, governance, quality of regulation, state and law and corruption. On the other hand, these averages are positive for the endogenous variable (FDI-GDP) and gross domestic product, infrastructure and human capital.

The median divides the population of each variable into two equal parts. Also, we note that the number of observations equal to 150 and the cross-section is equal to 10. We will study the estimation quality and the adjustment of each component of our database based on absolute and relative dispersion indicators. For this purpose, Table 2 (see Appendices) corresponds to the dispersion criteria for these variables. We find from the dispersion indicators that the standard deviations are very low for variables VOA, Stability, Governance, Quality and regulation, State and law and corruption. Hence, this is a good fit for these variables.

On the other hand, the standard deviations are high for the endogenous variable and the rest of the explanatory variables and the linear adjustment of these variables is very poor. The precision indicator is bad for the endogenous variable because the variance of this variable is very high.

On the other hand, the risks for the variables where the very low standard deviations are very minimal. We will study the normality of these explanatory variables and the contribution of FDI to economic growth for the ten SEMC (Southern and Eastern Mediterranean) countries. countries through the Jarque-Berra statistics. Table 3 (see Appendices) summarizes the shape indicators for these variables.

Referring to this table we can see that the variables VOA, Qual, State and CH follow normal laws since Jarque-Bera statistics are less than the tabulated value of Chi-two at two degrees of freedom. On the other hand, the endogenous variable, ie the contribution of FDI to economic growth for the sample of SEMC countries during our study period, does not follow the normal law because the Jarque-Bera statistic is significant At the 1% risk threshold.

The nonlinearity of this variable is explained by the asymmetry of the information for the FDI relative to the gross domestic product and the non-flattening. Also, the fight against corruption, infrastructure, GDP and governance do not follow the normal law because their Jarque-Bera statistics are higher than the critical value of the Chi-two law with two degrees of freedom. Despite this, the governance variable follows the normal law only within a risk threshold of 5% and 1%. We will try to estimate a static relationship that describes the contribution of direct investment abroad to GDP in terms of the various explanatory variables: Infrastructure (Inf), Voice of Citizenship and Responsibility (VOA), Political Stability and Absence (QUAL), Rule of law (State), Quality of regulation (Gov) and Fight against corruption (CORR). The macroeconomic variable represents the per capita gross domestic product (GDP) in constant dollars for the 2010 base year that measures purchasing power parity.

We will estimate our reference model during a study period from 2000 to 2014 for a sample of ten countries: Algeria, Egypt, Israel, Jordan, Lebanon, Libya, Morocco, Syria, Tunisia, Turkey. Our basic model can be written in the following form:

$$FDIGDP_{it} = \alpha_i + \beta_i \text{VOA}_{it} + \chi_i \text{STAB}_{it} + \delta_i \text{GOV}_{it} + \phi_i \text{QUAL}_{it} + \gamma_i \text{STATE}_{it} + \lambda_i \text{CORR}_{it} + \varphi_i \text{INF}_{it} + \eta_i LGDP_{it} + \tau_i LCH_{it} + \varepsilon_{it}$$

The innovations ε_{it} are assumed to be iid of zero mean and of variance equal to σ_{ε}^2 , $i \in [1, N]$

Table 4 (see Appendices) will present the homogeneity tests for our basic model. We note that all the coefficients are ideal for the ten SEMC countries, although the constants are different for these countries.

For this purpose, we specify the contribution of FDI to GDP by a panel with individual effects. We will use the Within and GLS techniques to estimate this contribution. Table 5 (see Appendices) summarizes these two estimation procedures in the observation of static relations. They describe the linear equation that links FDI to GDP in terms of the explanatory variables of governance and macroeconomics.

The estimation of the static relationship that describes the contribution of FDI to GDP for the sample of SEMC countries yields expected and significant results. But, corruption has a positive and insignificant impact on the Within or LSDV method. On the other hand, this corruption has a negative and significant effect by the GLS method. The law and the state play a positive and not significant role in the increase of the FDI volumes for the Within technique but significant by the GLS procedure. Gross domestic product has a positive and significant influence on the two appropriate technologies. Political stability has a negative and insignificant effect on FDI volumes. We will use the Hausman arbitration test (1978) to identify the nature of the individual effects. Table 6 (see Appendices) corresponds to the Hausman test (1978) for the contribution of FDI to GDP for the SEMC area during a study period from 2000 to 2014.

Hausman's (1978) statistic is greater than the tabulated chi-square value at nine degrees of freedom. Hence, the individual effects are fixed and we choose the In technique to estimate the static relationship that links the contribution of FDI to GDP as a function of the explanatory variables.

Conclusion

In this paper, we examined the role of governance in attracting FDI. For this, we have empirically analyzed this effect from a sample of the ten countries over a period of 15 years. We approximated the movement of FDI attractions by governance by an endogenous variable called FDI versus GDP. This variable corresponds to the contribution of FDI to economic growth. Our database is extracted from the World Bank for nine variables: IDE-GDP, VOA, STAB, GOV, QUAL, STATE, CORR, INF, CH, GDP.

These variables group into three groups: An endogenous FDI-GDP variable, governance variables that are; (VOL), Political Stability and Absence of Violence (STAB), Government Effectiveness (GOV), Rule of Law (STATUS), Quality of Regulation and Fighting Corruption (CORR)) And the macroeconomic variables that are; Gross domestic product (GDP) and human capital (HC). We have studied the quality of these variables by the position, dispersion and shape indicators. We verified the normality of these variables by the Jarque-Berra test and we detected the quality of linear adjustment of each variable with respect to its mean.

The empirical validation of the impact of good governance on the attraction of FDI and economic growth is validated from a sample of the 10 countries over 15 years. For this we used the Static Panel technique and based on the

assumption of the absence of a stationarity problem for the explanatory variables of our basic model.

We have referred to the homogeneity-heterogeneity tests to specify this reference model and we model the role of governance in the attraction of FDI by a panel with individual effects. We have estimated this model by the Within and GLS procedures. These estimation procedures yield expected and significant results. We have arbitrated between these two procedures estimates by the Hausman test (1978). We have identified the nature of individual effects by fixed special characters that are invariant over time.

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Appendices

	Average	$M\'edian$	Maximum	Minimum
FDI-				
GDP	3.726222	2.003372	23.53736	-0.469310
VOA	-0.744149	-0.768232	0.769107	-1.960072
STAB	-0.634380	-0.552506	0.788418	-2.171064
GOV	-0.147069	-0.146406	1.345444	-1.212487
QUAL	-0.254975	-0.172288	1.215053	-1.947827
STATE	-0.116055	-0.106493	1.258530	-1.156871
CORR	-0.252480	-0.320450	1.471174	-1.257209
INF	26.69394	27.26709	29.28889	22.26934
СН	73.19633	72.25140	111.1814	36.42012
GDP	4740.741	2247.805	22239.05	1203.193

	Standard		Coefficient of	Mean Error
	deviation	Variance	Variation	
FDI	4.374718	19.13815	1.174036	0.3571942
VOA	0.6830973	0.466622	-0.917958	0.0557747
STAB	0.6328679	0.4005218	-0.9976171	0.0516735
GOV	0.6407208	0.4105231	-4.356602	0.0523146
QUAL	0.7250448	0.52569	-2.843587	0.0591997
STATE	0.5490512	0.3014572	-4.730944	0.0448298
CORR	0.5931841	0.3518674	-2.349429	0.0484333
INF	11.86534	140.7864	0.7317869	0.9688012
СН	17.98704	323.5337	0.2296295	1.473556
GDP	5391.987	2.91×10^7	1.137372	440.2539

	Skewness	Kurtosis	Jarque-Bera	Significance
FDI-				
GDP	1.799363	6.002603	137.2904	0.000000
VOA	0.388352	2.708219	4.302526	0.116337
STAB	-0.291610	2.524487	3.539106	0.170409
GOV	0.440394	2.735241	5.286786	0.071120
QUAL	-0.182855	2.827634	1.021586	0.600019
STATE	0.267919	2.848080	1.938767	0.379317
CORR	0.900939	3.506524	21.89580	0.000018
INF	-0.656917	2.068415	16.21255	0.000302
СН	0.145529	2.324609	3.380421	0.184481
GDP	2.179587	6.616568	200.5122	0.000000

Table 4: The homogénéity tests			
	Homogénéity of constants	Homogénéity of coefficients	
FDI-GDP it	21.51 (0,000)	$0.95 \; (0.9754)$	

able 5: Estimation of FDI-G.	DP for the SEMC Zone	
Variables	Estimate Within	Estimate GLS
VOA	-1.493164 (0.477)	-3.74525(0.059
STAB	-1.560287(0.157)	-0.9475856(0.39
GOV	-5.092323(0.013)	-5.225598(0.01)
QUAL	5.074164(0.063)	9.126661(0.000
STATE	3.259807(0.194)	2.543866(0.348
CORR	0.7269082(0.716)	-1.772768 (0.38
INF	-0.2391452(0.004)	-0.2211231(0.01
LCH	3.971918(0.096)	3.084236(0.207
LPIB	1.612062(0.233)	2.82394(0.049

Table 6: Hausman test		
	FDI-GDP it	
Stat-Hausman	$\chi^2(9)=261.04(0.000)$	