

# <sup>1</sup> Executive Compensation and Accounting Performance in French

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## <sup>5</sup> **Abstract**

<sup>7</sup> The empirical study carried out on 37 French companies listed on the SBF120 index over the  
<sup>8</sup> period 2015 analyzes the relationship between the accounting performance and the level of  
<sup>9</sup> executive compensation. Our analysis demonstrated that the level of cash compensation  
<sup>10</sup> (wages and bonuses) is affected by the size of the firm. In addition, it appears that certain  
<sup>11</sup> governance variables negatively affect the level of executive compensation. In addition, and  
<sup>12</sup> contrary to expectations, our results show that the ROA's accounting performance does not  
<sup>13</sup> affect compensation.

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<sup>15</sup> **Index terms**— executive compensation, agency theory, size, performance.

## <sup>16</sup> **1 Introduction**

<sup>17</sup> xecutive compensation is an essential part of the governance system, as it aligns the interests of shareholders with  
<sup>18</sup> those of management. This link between the remuneration of managers and the performance of the company  
<sup>19</sup> has been the subject of several studies which have produced contradictory results. Practically, existing empirical  
<sup>20</sup> studies report contradictory evidence on the impact of corporate performance on executive compensation. Some  
<sup>21</sup> studies have found a positive relationship between the level of executive compensation and performance (Crespi-  
<sup>22</sup> Cladera and Gispert (2003)), others found no relationship between managerial pay and performance Dogan  
<sup>23</sup> and Smith ??2002), ??akinen (2005), Broye and Moulin (2010). Others, however, found relationships varying  
<sup>24</sup> according to the performance measure used (Antle and Smith (1986)).

<sup>25</sup> In France, where most French listed companies have proved to be family-run and often confused between  
<sup>26</sup> control and management ??Boubaker, 2005), the results of these developments remain nuanced. On the one  
<sup>27</sup> hand, Pige's research (1994) has pointed out that the link is positive but of low magnitude. On the other  
<sup>28</sup> hand, Poulain and Rehm ??2000) and Albouy (2004) announced the absence of the link. Hence, the question  
<sup>29</sup> of the explicit determinants of executive compensation and its implicit link with performance in listed French  
<sup>30</sup> family businesses proves to be of enormous importance. In particular, the treatment of this link remains timidly  
<sup>31</sup> addressed in this specific field ??Finkelstein and Hambrick, 1989 ?? Golderg and Idson, 1995 ?? Ramaswamy et  
<sup>32</sup> al 2000 ?? Hirigoyen and Poulain-Rehm, 2000).

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<sup>34</sup> The objective sought by this article is to present the theoretical aspects justifying the remuneration policies  
<sup>35</sup> of the managers of the companies and to question the implicit link between the remuneration of these managers  
<sup>36</sup> and the performance in these companies. It is then necessary to present the theoretical framework that justifies  
<sup>37</sup> the remuneration allocated to managers and its relation to the performance of the company. Finally, we propose  
<sup>38</sup> an empirical analysis during the year 2015 that concerns 37 French companies listed on SBF120.

## <sup>39</sup> **2 II.**

## <sup>40</sup> **3 Review of Literature and Formulation of Hypotheses a)** <sup>41</sup> **Agency theory**

<sup>42</sup> In 1776, Adam Smith understood that a conflict of interest could arise between the owners and the nonowners  
<sup>43</sup> in the company. This conflict of interest has arisen between two (or more) parties when one of these two parties

## 6 A) DEFINING VARIABLES

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44 (non-owner) acts either on its own or as the representative of the other (owner). ??erle and Means (1932) in  
45 their work "The Modern Corporation and Private Property" highlight the predominance of the managerial firm  
46 as a mode of majority organization of capitalism. This firm is characterized by its dispersed ownership and by  
47 professional managers ensuring its operational management. ??ensen and Meckling (1976) extend this analysis  
48 and consider that the firm is a contracting nexus, associating the firm with all the different providers of resources  
49 indispensable to the organization's functioning. They model the agency relationship by representing the link  
50 between the agent (managers) and the principal (the shareholders).

51 Therefore, the principal-agent literature postulates that compensation should be based on appreciable results  
52 and that contracts should be designed to motivate agents of better performance, therefore there should be a  
53 positive relationship between executive compensation and performance of the company. In the theory of the  
54 agency, the problem is to create an incentive structure that aligns the interests of shareholders with the benefits  
55 of the managers. To achieve this objective, a compensation contract is generally offered to managers to increase  
56 the wealth of shareholders (J & M1990). In this context, performance improves.

57 According to the agency's theory, if a compensation contract reduces agency costs, the adoption of a  
58 compensation system by the firm should result in an increase in the wealth of shareholders. Also the decisions  
59 of the governed remuneration taken by the manager should lead to an improvement of the performance of the  
60 company. Once manager receive adequate compensation, it assumes they work harder and contribute to the  
61 company's performance increase.

62 Nevertheless, the remuneration contract is incomplete because it is impossible to predict all the situations in  
63 which the managers will have the opportunity to act from a perspective contrary to the maximization of firm  
64 value. From an agency perspective, this means that other governance mechanisms need to be put in place to  
65 control the agency's relationship and to prevent leaders from diverting the wealth of shareholders by making as  
66 Overinvestment in excess free cash flow ??Jensen, 1986). From a political-contractual perspective, this implies  
67 that the remuneration contract must recognize both shortterm and long-term performance, both accounting and  
68 market.

69 Many of the existing empirical research reported contradictory results when the relationship between  
70 performance and executive compensation starting with a survey by Lewellen (1970) suggests that there is a  
71 considerable correlation between performance and wage levels of the framework. Additionally, they find these  
72 long-term remuneration elements had little effect on that reward-performance bond. ??ambert and Larcker  
73 (1987) show that compensation (salary + bonus) is positively and strongly related to the measure of accounting  
74 performance (asset return), but moderately related to the measure of market performance (stock returns)

75 A study by Gerhart and Milkovich (1990) found that the composition of remuneration was performance related.  
76 The authors found that an increase of 1 percentage point in the return on assets (ROA) resulted in an increase  
77 in base salary of 0.2% (\$ 142). Sloan (1993) the existence of a positive link between executive compensation  
78 and accounting indicators that contain less noise than stock market measures. ??oucouliagos and Hoque (2005)  
79 found a positive association between pay and performance in the firm, Clarkson, Nichols and Walker (2006) find  
80 a positive association for 336 Australian firms for the period 1998-2004. Similarly, Dardour and Husser (2014)  
81 found a positive relationship. While Broye and Moulin (2010) demonstrated that the company's financial or  
82 stock market performance does not affect the remuneration of French executives for the year 2005. And others  
83 have found a negative relationship between executive pay and the ROA's accounting performance, for example  
84 ??B et al., 2006), its study was based on 174 Japanese firms from 1992-96.

85 Generally, the empirical results that link pay to performance, even positive and significant, are insufficient to  
86 consider that performance can play an important role in determining executive compensation. Based on these  
87 studies, we propose that:

88 Hypothesis 1: The relationship between executive compensation and the company's accounting performance  
89 is positive.

## 90 4 III.

## 91 5 Description of the Sample

92 Our initial work sample is made up of 37 companies listed on the French constituting the SBF120 index for the  
93 year 2015, it is limited to operating companies, mainly in industrial sectors and services. The choice of companies  
94 in our sample was random and simple. Data on variables are collected from the annual reports and reference  
95 documents of these firms.

## 96 6 a) Defining Variables

97 In the framework of the model that we wish to develop, we start from the same theoretical postulate, namely that  
98 there is a relation between the remuneration of the managers and the accounting performance of the company,  
99 we want to justify our hypothesis and know Nature of this relationship. But first, we identify the dependent and  
100 independent variables of our model.

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## 101 7 i. The dependent variable

102 Since the Breton Act of 26 July 2005, listed companies have been obliged to publish the remuneration of corporate  
103 officers. Prior to this date, a similar obligation was imposed by the NRE law of 15 May 2001, but most companies  
104 were content with this global information, thus not making public the remuneration received individually for each  
105 proxy.

106 The total amount of compensation received by the managers during the reference year 2015 was obtained from  
107 the analysis of the annual reports, in our subject we use the normal log of executive compensation calculated  
108 by (Ln REM)). This amount of remuneration is understood to include the fixed part (salary) and the variable  
109 part (bonus, benefit in kind) of remuneration that have been disclosed in the annual reports and do not include  
110 so-called long-term incentives such as Allocations of free shares or stock options. First, we want to follow the  
111 work of Piketty (1997) and Landais (2007) on the effect of performance on pay (wage + bonus) irrespective of  
112 the long-term incentives. Compensation is due to the absence of observable annual data. The available data  
113 are indeed estimates made on the option values, with the Black-Scholes method generally; these estimates may  
114 deviate from the values that will actually be realized at the end of the option, this may have been particularly  
115 true for options granted prior to the 2008 crisis and whose underlying capital gains have fallen.

116 ii. Independent variables For the construction of our model, we used an independent variable and four control  
117 variables drawn from empirical studies to date.

## 118 8 iii. The control variables

119 Based on the existing literature, four control variables were selected:

120 In France, the influence of a controlling shareholder is in particular terms, since a large number of listed  
121 companies are controlled by a majority shareholder. In addition, numerous Anglo-Saxon studies confirm that a  
122 higher shareholding held by the control blocks has a negative influence on the CEO's remuneration (Lambert et  
123 al., 1993 Ownership of majority shareholders (CONCEN) is owned by shareholders owning more than 5% of the  
124 company's capital. We chose 5% as do several researchers, such as Mehran (1995). Therefore, we have chosen  
125 the majority shareholder shareholders with more than 5% voting rights.

126 The size variable is an element traditionally taken up in the literature inherent in this research theme and  
127 must also be taken into account when describing executive compensation (Jensen and Murphy, 1990; ??osi et al.,  
128 2000; Albouy 2004). For the measurement of this variable, Crespi-Cladera and Gispert (2003) adopt the logarithm  
129 of the total turnover. So we measure the size (SIZE) by the logarithm of turnover.

130 In addition, the company's growth opportunities should also affect executive compensation. To the extent that  
131 managers are responsible for developing growth opportunities, they should be rewarded when these opportunities  
132 are indeed high (Smith and Watts 1992). The relationship between growth opportunities and the level of  
133 compensation should therefore be positive. We measure growth opportunities (MTB) through the market to  
134 book ratio, which measures the ratio between the company's market capitalization and the book value of its  
135 equity.

136 According to ??ensen (1986), the debt policy is also a mechanism of control exercised by shareholders. Indeed,  
137 an executive who would have a significant recourse to the indebtedness would be sanctioned in his remuneration.  
138 It is introduced as an observable risk measure in a study by ??arjoto and Mullineaux (2001) and as a determinant  
139 of the remuneration of company executives. The measure of indebtedness (LEV) in our study is the ratio of Debt  
140 = total debts / total assets.

## 141 9 IV.

## 142 10 Research Methodology

143 In the light of the studies of (Basu et al. (2006), ??enon et al. (2006), the methodology adopted in our study  
144 is based on the multiple regression model. For this we used the following model:REM = ?0+ ?1 ROA+ ?2  
145 CONCEN + ?3 MTB+ ?4 SIZE+ ?5 LEV + ? V.

## 146 11 Results

147 Table 1 presents descriptive statistics for our sample. Over the period of 2015, the SBF120 managers received  
148 an average annual total remuneration of ? 2001 million with a range of ? 118 million to a maximum of ? 35,000  
149 million. It consists of 45% in average base salary and 41% in average annual bonus, with the remaining 15%  
150 consisting of exceptional remuneration, attendance fees and / or benefits in kind. It can be seen that in most  
151 of the companies selected in our sample the bonus value is equal to the salary value but the payout is monthly  
152 whereas the bonus payment period remains according to the context of the company. It should be noted here  
153 that a number of managers do not receive variable compensation, either in the form of an annual bonus or stock  
154 options.

155 On average, accounting performance is very low compared to financial performance 15.11% (Table 2), which  
156 leads us to conclude that the companies in our sample are based on the allocation of shares on the stock exchange.

157 As is known to French companies, the concentration of property shown in Table 1 is relatively low. The average  
158 percentage of capital held by the concentrated majority shareholders is equal to 42% (42% of the voting rights).

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159 The standard deviation of this variable is 0.268, which shows that this variable is somewhat volatile compared  
160 to the others. This result confirms the particularity of the French context, namely a grouping of capital around  
161 a few shareholders (La Porta et al., 1999). Indeed, the absence of the majority shareholder in French companies  
162 increases the level of remuneration of the leaders.

163 According to the table, size as an important factor influencing the level of executive compensation is noticed  
164 very volatile with a standard deviation of 3.78%. We also note that the level of debt held by companies is about  
165 27.8%, indeed the dispersion of this variable is important since it extends from 2% to 85.8% (Table 2), and this  
166 implies that the companies we have chosen rely on external means (indebtedness) on average 27% in financing  
167 its investments.

168 The first of the independent variables to which we are interested in designing this model is the company's  
169 performance. We follow the study of Larker (2002), and Makinen (2005) in the measure of accounting  
170 performance, that they adopt the ROA as measure of this performance.

171 Finally, we note that more than half of the companies making up our sample are in the industrial sector 54%  
172 and the rest of these companies are specialized in the services sector.

### 173 12 a) Compensation and Performance

174 This section analyzes the test results of our research hypothesis on the impact of the company's accounting  
175 performance on total executive compensation, the results of the regression of our model are given in Table 3.

176 The results of the compensation estimate indicate that the model applied to our study sample is globally  
177 significant, its coefficients of determination are  $R^2 = 26.30\%$  and the Fisher F statistics are significant at the 5%  
178 threshold for this model.

179 Thus, the adjusted  $R^2$  value is 0.145 indicates that 14.50% change in total compensation is explained by the  
180 variation in the explanatory variables used in this model. And the presence of a significant constant at the 1%  
181 threshold with a very high positive coefficient ??13.76) implies that the level of total compensation is explained  
182 by other governance variables that we have not used.

183 The coefficient of performance is negative and not significant (-0.52), this leads us to say that the accounting  
184 performance has no relation with the compensation of the managers in the companies of our sample. This result  
185 confirms previous studies by ??enon et al. (2006), Makinen (2005), Broye and Moulin (2010) that there is no  
186 correlation between total compensation and accounting performance.

187 Whereas, we find more studies that found that the change in compensation was explained by the change in  
188 accounting performance (Ramasway et al. ??2006) and Ghosh (2003), Dardour and Husser (2014).

189 Statistical results show that the size of the firm, as measured by the logarithm of total assets, positively and  
190 significantly affects the relationship between total compensation and performance, these findings corroborate  
191 the work of Leonard (1990), Yermack 2004), Kubo and Kato (2006), which indicate that the level of total  
192 compensation increases significantly with the size of the firm. Thus the other control variables specific to the  
193 firm (debt, ownership structure) are all nonsignificant.

194 Moreover, the review of statistical tests, allows us to refuse our underlying assumption that executive  
195 compensation has no relation to the accounting performance.

### 196 13 VI.

### 197 14 Conclusion

198 This article was devoted to empirically studying the relationship between accounting performance with executive  
199 compensation policies.

200 The study in question is based on a sample of 37 French companies included in the SPF 120 index over a  
201 period of one year. This method was conducted using a multiple regression technique to capture the relationship  
202 between executive compensation and corporate performance.

203 From this study, we have shown the contradiction of previous studies for the impact of the accounting  
204 performance on the total remuneration of the managers In addition, this study indicates that the level of the  
205 total remuneration of the managers (salary and bonuses) is relatively unrelated to improved performance.

206 Regarding control variables only the size of the company has a favorable effect on the level of remuneration.

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Figure 1:

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**1**

	N	MINIMUM	MAXIMUM	MEDIAN	SD
SALAIRE	37	597000,00	12810891,200	600814,22286	21773849,4615
BONUS	35	,00	12800000,000	514321,95714	21789581,9504
REM	37	118380,00	35000000,000	2001872 ,31429	71683982,6864
N valide (list-wise)	37				

Figure 2: Table 1 :

**2**

	N	MINIMUM	MAXIMUM	MEDIAN	SD
ROA	37	,01230	1,0681	,15114	,20648
MTB	37	,00068	10,4483	1,69553	2,21804
CONCEN	37	,01370	,99200	,418929	,268070
SIZE	37	3,6546	25,0663	20,5010	3,78152
LEV	37	,02166	,85896	,278309	,190778

Figure 3: Table 2 :

**3**

VARIABLES	COEFFICIENTS	TEST-STUDENT
constante	13,768	7,69***
ROA	-0,528	-0,393
MTB	-0,353	-1,745**
CONCEN	-0,474	-0,410
SIZE	0,077	1,034*
LEV	-1,564	-0,923*
R <sup>2</sup> =0,263		
R <sup>2</sup> ajust=0,145		
Fish=2,218**		

[Note: \*]

Figure 4: Table 3 :



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