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## Corporate governance and performance of Italian gambling SMEs during recession

**Purpose:** This study aims to explore how the economic recession and some corporate governance (CG) provisions can affect the performance of Italian gambling small and medium-sized enterprises (SMEs) across different business segments.

**Design/Methodology/approach:** This study uses a panel sample of 2,135 observations before and during the global financial crisis. Specifically, the roles of ownership, boards of directors, CEO gender, and gambling business segments are investigated in the Italian gambling market.

**Findings:** Ownership concentration has a negative relationship with the performance of foreigner- and financial-owned firms, while boards exert a positive role on performance. Interestingly, the financial crisis does not impact the performance of Italian gambling SMEs and some business segments, such as bingo, perform even better during the crisis.

**Research limitations/implications:** Further investigations should analyze the role of single games on firm performance. The consumer- and firm-level examinations offer very different perspectives and scholars should be aware of this when investigating the gambling industry.

**Practical implications:** This study might help both policymakers and other gambling firms, such as casinos, to better understand which appropriate CG model should be adopted and how it can positively influence performance, especially in recessionary times.

**Originality/value:** This study contributes to studies on hospitality and tourism by focusing on the complementary role of gambling SMEs with respect to casinos. It also increases knowledge on the role of CG in privately owned gambling firms, which thus far has been scantily investigated by scholars.

**Keywords:** gambling; SMEs; performance; corporate governance; financial crisis.

**Paper type** Research paper

## 1. Introduction

Nowadays, gambling plays a relevant role in the overall travel and tourism industry. It has a significant impact on the GDP of many countries around the world (e.g. Li *et al.*, 2010). In this regard, it is commonly argued that the gambling industry does not seem to have been influenced by the global financial crisis and continues to increase its turnover. Indeed, such industries as casino hotels have been regarded as “recession-proof,” as gamblers increase their spending in difficult economic times compared with less turbulent times (Mikesell, 1994; Zheng *et al.*, 2013).

However, since the revenues of these industries are mostly related to people’s discretionary consumption (Youn and Gu, 2010), even the gambling industry might be confronted by a crisis. In recession times, casinos have to cope with reduced levels of tourism, and individual firms—especially small and medium enterprises (SMEs)—might be strongly and negatively affected by the economic crisis. Therefore, preventing their failure is becoming a prominent issue.

While a growing number of gambling firms are experiencing economic difficulties, very few studies have investigated whether and how gambling activities are influenced by the economic crisis (Cantor and Rosentraub, 2012; Horváth and Paap, 2012). In addition, many studies and reports are focused on either industry-level analysis of economic performance or consumer-level analysis of expenditure, by considering gamblers’ behavior and how changes in income due to recession affect their gaming expenditure (e.g. Olason *et al.*, 2015). Only a few studies undertake firm-level investigations, and those that do focus mainly on listed companies, while not much attention has been paid to the large number of unlisted firms comprising the gambling industry. In addition, gambling firms’ performance mainly has been investigated in the North America casino context, as constituents of the travel and tourism industry (Jeon and Hyun, 2013). However, casinos are only one type of a number of players

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3 in the gambling industry. Within the gambling sector, much less attention has been paid to  
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5 the large number of gambling firms other than casinos, such as bingo operators and licensed  
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7 betting offices (LBOs). Like casinos, smaller gambling firms also can attract tourists, while  
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9 offering residents a set of amenities. Given the crisis that has hit casinos, gambling SMEs  
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11 might revitalize local economies and deter people from travelling abroad only for gaming  
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13 services. All of these factors call for understanding how gambling SMEs cope during crisis  
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15 times.  
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18 Nevertheless, the financial crisis should not be considered the only determinant of  
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20 gambling firms' performance. Indeed, some Italian casinos have produced notable losses  
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22 even before the beginning of the economic crisis. Therefore, other variables should be  
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24 considered, such as ownership structure and the role of boards of directors. Indeed, corporate  
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26 governance (CG) is an important determinant of economic performance. Conflicting  
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28 empirical findings about the traditional relationship between CG and firm performance might  
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30 be because CG provisions are industry specific. Since the industry setting should be  
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32 considered when assessing a particular client's governance mechanisms (Beasley *et al.*,  
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34 2000), it becomes critical to explore this relationship in the gambling industry, which is a  
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36 neglected but hugely relevant industry.  
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41 This study investigates the Italian gambling market through a panel sample of 355 SMEs,  
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43 in order to analyze the extent to which different types of ownership and other governance  
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45 mechanisms might explain gambling firms' performance before the economic crisis (2005–  
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47 2008), during the crisis (2009–2012), and across different gambling business segments. This  
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49 particular setting represented by Italian gambling SMEs can provide new inferences about the  
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51 relationship between CG and financial performance, since CG might show unexpected  
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53 dynamics in SMEs as well as in a strongly competitive, intangible, technology-intensive,  
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55 risky, and opaque industry, such as gambling.  
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3 Therefore, by analyzing this poorly studied industry, our work adds to the sparse body of  
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5 knowledge on the hospitality industry. In particular, while the majority of previous studies  
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7 focus on a single casino or closely clustered group of casinos on particular states, this study  
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9 provides new evidence on the complementary role of privately owned gambling SMEs with  
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11 respect to the four Italian casinos, thereby providing a good opportunity to improve the  
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13 external validity of previous results.  
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## 16 17 18 **2. Literature review and hypothesis development**

### 19 20 *2.1 Related literature and motivation for this study*

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22 The hospitality industry has been found to have different structural characteristics from other  
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24 industries, in terms of higher investment and financing (e.g. Upneja and Dalbor, 2001;  
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26 Kizildag, 2015). As Singal (2015) states, “The formal identification and recognition of these  
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28 differences provides justification for using the hospitality and tourism industry as a context  
29  
30 for testing business theories and can explain differences in decision-making and firm  
31  
32 outcomes” (p. 116). In particular, the hospitality and tourism industry’s own academic  
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34 specialties open up opportunities for studying governance structures in this industry (Keiser,  
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36 2002), given that the different types of behavior of hospitality firms might be attributable in  
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38 part to agency problems and CG structures (Oak and Iyengar, 2009).  
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43 Recent research of CG issues in the tourism and hospitality industry shows interesting  
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45 results in terms of differences between this industry and other industries, thereby confirming  
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47 the notion that CG plays a different role in the hospitality industry (e.g. Moon and Sharma,  
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49 2014). For example, hospitality firms have weak shareholder rights (Altin *et al.*, 2016), are  
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51 more likely to experience agency problems, and have lower governance control mechanisms  
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53 (Oak and Iyengar, 2009; Guillet and Mattila, 2010). Furthermore, CG has been found to  
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3 differ even within the hospitality industry, that is, across its main segments, such as hotels,  
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5 restaurants, and casinos (Guillet and Mattila, 2010).  
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7 Notwithstanding the increased attention to CG in the hospitality and tourism industry, the  
8  
9 relationship between CG and firm performance in this industry remains under-researched  
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11 (e.g. Keiser, 2002; Al-Najjar, 2014; Wang, 2015; Yeh and Trejos, 2015), and mainly focused  
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13 on the hotel or restaurant segments (e.g. Madanoglu and Karadag, 2016), while investigations  
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15 on casinos involve only limited aspects of CG. No study has yet considered the role of CG as  
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17 a determinant of gambling SMEs' performance, especially during a recession. This study  
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19 considers these two phenomena might be interrelated. Indeed, the fact that the 2008 recession  
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21 is still affecting several countries might be explained by CG failures and weaknesses  
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23 (Kirkpatrick, 2009). Since CG deals essentially with agency problems, a crisis context, in  
24  
25 turn, might increase the relevance of CG procedures, and in particular, the monitoring role of  
26  
27 controlling shareholders, because of higher expected managerial agency costs (Roe, 2003).  
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29 Therefore, stemming from the proposition that governance structures might be industry  
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31 specific, this study relies on the notion of a disaggregated analysis of industries and their  
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33 segments, and focuses on the role of CG in the gambling segment.  
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#### 41 *2.2 Hypothesis development*

42 This study follows the OECD view, in which CG is regarded as having a system of rules  
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44 regarding ownership structure and companies' boards of directors (OECD, 2004). In  
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46 developing the hypotheses, this study focuses on both traditional agency theory (Jensen and  
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48 Meckling, 1976) and upper echelon theory (Hambrick and Mason, 1984). The implication for  
49  
50 CG is that adequate monitoring or control mechanisms need to be established to reduce  
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52 agency costs that occur when management pursues its own interests at the expense of  
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54 shareholders' interests and thus, of profit maximization. In the following section, this study  
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3 analyzes the impact on gambling SMEs' performance of three main determinants: 1)  
4 ownership concentration and type, board size, and CEO gender, 2) the gambling business  
5 segment, and 3) the role of the financial crisis.  
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### 10 11 *2.2.1 Ownership concentration, type, and SMEs performance*

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14 Only a minor number of studies have investigated the impact of ownership concentration on  
15 accounting performance of private firms. In most EU civil law countries, and especially in  
16 Italy, private firms are characterized by very high ownership concentration, the presence of  
17 family ownership, and lower shareholder protection compared to common law countries.  
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19 Consequently, there is a higher probability of expropriation of minority shareholders, which  
20 gives greater private control benefits to majority shareholders (La Porta *et al.*, 2002), and this  
21 leads to the general concept of a negative relationship between ownership concentration and  
22 non-listed firm profitability. However, the hospitality industry might be different. For  
23 example, Yeh and Trejos (2015) find that the presence of large shareholders has a significant  
24 influence on tourism firms' return on assets (ROA).  
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37 Moreover, since ownership structure might involve different types of owners, this study  
38 explores the influence of the type of shareholders on firm performance. Ownership type is  
39 related to firm performance. For example, Tsai and Gu (2007) explore the US casino industry  
40 during 1999–2003 and find that institutional ownership was a significant and positive  
41 determinant of casino firm performance. This study distinguishes the following five  
42 ownership identities—insider, family, foreigner, individual, and financial owners—as  
43 discussed in the following subsections.  
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54 *Insider-owned firms.* Agency theory predicts that high levels of insider ownership (i.e.  
55 executive directors) mitigate conflict of interests between managers and other shareholders,  
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3 thereby strengthening their alignment (Jensen and Meckling, 1976). In the hospitality  
4 industry, Guetat *et al.* (2015) find improvements in the firm efficiency of Tunisian hotels  
5 depending on managerial ownership, so supporting the hypothesis of the convergence of  
6 interests between manager and shareholders predicted by the agency theory. However, this  
7 hypothesis contrasts with the hypothesis of the entrenchment effect, that is, managers feel  
8 themselves more protected from potential takeovers. In this case, the entrenchment effect  
9 might produce a negative relationship between firm performance and insider ownership  
10 (Morck *et al.*, 1988). Chen *et al.* (2012) argue there is a high probability of differences in  
11 insider managerial ownership in various hospitality industries and they find evidence that,  
12 after an optimal point, insider ownership causes performance of Taiwanese tourist hotels to  
13 deteriorate significantly, supporting the entrenchment hypothesis. Since, in the case of SMEs,  
14 it has been found that higher insider-ownership concentration (i.e. more than 68%) is  
15 associated with lower performance (Keasey *et al.*, 1994), and the entrenchment effect is more  
16 likely to occur when the investment is riskier, such as in gambling firms, this study posits the  
17 following hypothesis.

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*H1a.* The extent of insider ownership is negatively associated with Italian gambling SMEs' economic performance.

*Family-owned firms.* Certain differences seem to exist between family- and non-family-owned tourism SMEs (Hallak *et al.*, 2014). Indeed, the "family effect" leads family firms to balance the pursuit of family goals and business goals. For example, Andersson *et al.* (2002) examine tourism family firms in Australia, Canada, and Sweden and find that family owners used the business as a way to support the livelihood of the family. Since firm performance is related to risk and gambling firms can be considered riskier, the need to preserve family assets and to transfer business to the next generation might constrain the risk taking of family



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3 businesses and extract more private control benefits at the expense of minority shareholders.

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5 Thus, this study posits as follows.

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7 *H1b.* There is a negative association between the degree of family ownership and Italian  
8 gambling SMEs' economic performance.  
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14 *Foreigner-owned firms.* Generally, foreign ownership positively affects monitoring  
15 managerial entrenchment while reducing agency costs (Bekaert and Harvey, 2000, etc.). In  
16 addition, foreign owners might bring and foster greater knowledge, experience, and  
17 capabilities with regard to international markets (e.g. Fernández and Nieto, 2006). Moreover,  
18 since foreign owners often are controlled by parent firms, they could benefit from the  
19 parents' support if they belong to a strategic group. For example, Assaf *et al.* (2013) find that  
20 Slovenian casinos belonging to a group perform better than those operating individually do.  
21 Pine and Phillips (2005) find that better performance occurs in hotels that  
22 have foreign ownership connections. Gu (2002a) finds that diversifying into other countries  
23 helps casinos increase revenue and stabilize their operations. Indeed, while some European  
24 countries are characterized by reduced market competitiveness (Gu, 2002b), others, such as  
25 Italy, warn of market saturation signals that favor international diversification strategies. In  
26 addition, foreign investors might be attracted by potential higher financial returns offered by  
27 the gambling market. By having licenses in their country of origin, foreign gambling firms  
28 are also licensed to operate in Italy (thus, saving commercial brokerage costs). This study  
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49 *H1c.* The extent of foreign ownership is positively associated with Italian gambling  
50 SMEs' economic performance.  
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3 *Individual-owned firms.* Individual ownership refers to investments by private individuals.  
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5 Although the literature on individual-owned firms is scant (no academic research that  
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7 connects owner investments with SME performance is found), this study considers that the  
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9 behavior of firms owned by individuals can be associated, to some extent, with family-owned  
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11 firms' behavior. Individuals are mainly motivated by profit maximization, especially when  
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13 their investments concern controversial industries, such as gambling. For example, Graham  
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15 and Kumar (2006) stress that investors aim to achieve dividend income. In addition,  
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17 individual investors show limits to information processing in relation to their limited portfolio  
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19 size and risk capacity, so that agency costs are higher. Thus, this study posits as follows.  
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23 *H1d.* The extent of individual ownership is negatively associated with Italian gambling  
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25 SMEs' economic performance.  
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30 *Financial-owned firms.* Financial institutions (banks, investment firms, and pension funds)  
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32 invest in other firms in order to improve their financial performance. In the hospitality  
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34 industry, institutional ownership has been found to be positively related to the performance of  
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36 US publicly traded casinos (Tsai and Gu, 2007). However, the extent to which institutional  
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38 investors benefit SMEs has not been explored extensively in the literature. In SMEs,  
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40 institutional owners might not provide much benefit in terms of reduced agency costs.  
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42 Furthermore, institutional owners might be more conservative about financing entrepreneurial  
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44 opportunities that arise in a firm's local environment, thereby constraining firm profitability.  
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46 Finally, institutional owners can also impose additional reporting requirements, which would  
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48 add costs to SMEs (Randøy and Goel, 2003). Therefore, this study posits the following  
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50 hypothesis.  
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54 *H1e.* The extent of ownership by financial institutions is negatively associated with  
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56 Italian gambling SMEs' economic performance.  
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### 2.2.2 Board of directors, CEO gender, and SMEs performance

*Board size.* In the hospitality context, the relationship between board size and firm performance is more likely to appear different because of the industry's unique financial characteristics (Moon and Sharma, 2014). Findings in hotel and restaurant segments are mixed, with larger boards found to enhance firm profitability (Al-Najjar, 2014), have a negative impact (Yeh and Trejos, 2015), and no significance (Guetat *et al.*, 2015). However, those studies investigate only publicly listed tourism firms, while the general evidence on SMEs is less clear (Bennedsen *et al.*, 2008). O'Connell and Cramer (2010) find strong evidence that the relationship between performance and board size is significantly less negative for smaller firms. Indeed, larger boards could bring more experience, knowledge, and support (Dalton *et al.*, 1999). In addition, the upper echelons theory (the larger the board is, the greater is its diversity) suggests that board diversity might be an important factor in explaining organizational outcomes. This might be especially true in complex environments and technology-intensive industries, such as gambling. Therefore, this study posits as follows.

*H2a.* In Italian gambling SMEs, board size is positively related to firm economic performance.

*CEO gender.* CEO servant leadership has been found to positively influence firm performance in the hospitality industry (Huang *et al.*, 2016). Under the upper echelons theory, top managers' demography is assumed to impact on cognitive processes, which in turn reveals strategic outcomes, such as firm performance (Hambrick and Mason, 1984). In particular, gender appears to be a significant demographic determinant of small business performance (Rosa *et al.*, 1996). Previous studies find a positive relationship between the

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3 presence of a female as CEO and small business performance (Smith *et al.*, 2006; Davis *et*  
4 *al.*, 2010). Although more female CEOs work in the tourism industry than in the  
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6 manufacturing industry (Kim and Kim, 2011), results in publicly traded tourism firm find no  
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8 influence of gender diversity on firm performances (Yeh and Trejos, 2015), while Lee *et al.*  
9  
10 (2016) find that CEO gender negatively affects the internationalization of restaurant  
11  
12 companies. However, since the environment in which firms operate might affect the risk  
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14 appetite of women (Adams and Funk, 2012)—and gambling is a competitive and risky  
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16 industry—the presence of women as CEOs might produce higher performance, because they  
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18 are thought to be more risk averse than men are (e.g. Charness and Gneezy, 2012; Khan and  
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20 Vieito, 2013). This study posits the following hypothesis.

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25 *H2b.* In Italian gambling SMEs, the presence of a woman CEO is positively related to  
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27 firm economic performance.  
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### 30 31 32 *2.2.3 Gambling business segments and SMEs performance*

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34 EGMs, including both slot machines and videolottery terminals (VLTs), are the most popular  
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36 and profitable business segment. For example, Jeon and Hyun (2013) find slot machines to be  
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38 one of the five casino attributes determining baby boomers' satisfaction. The number of  
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40 EGMs in Italy is very high (about 400,000 in 2011, i.e. 1 for every 150 people), placing Italy  
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42 in second place in the world after Australia. Indeed, EGMs represent the largest segment of  
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44 the Italian market, with a 19% increase in 2010 compared to 2009, which is contrary to the  
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46 general global decreases caused by the global financial crisis (Ernst & Young, 2011).

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48 In addition, differently to common slot machines that accept only coins, VLTs (about 40,000  
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50 in Italy), which were once reserved for casinos, operate with high-value bills and allow  
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52 higher stakes. In 2011, VLTs accounted for 28% of Italy's total slots revenues, while in 2012  
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54 they accounted for more than 40% of the total. Thus, this study posits as follows.  
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3 H3. Italian gambling SMEs operating with VLTs perform better than SMEs operating in  
4 other business segments do.  
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#### 9 10 2.2.4 Gambling SMEs performance in the 2008 global financial crisis

11 The 2008 global financial crisis has affected international tourism as well as gaming-related  
12 regional tourism within countries. Before the global financial crisis of 2008, the lottery  
13 market in the EU had steady growth. The compound annual growth rate (CAGR) for the 27  
14 EU countries amounted to 1.22% in 2006–2008. When the financial crisis started, the CAGR  
15 of lotteries in 2009–2012 was negative at –0.56% (European State Lotteries and Toto  
16 Association, 2012).  
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25 Previous research on gaming consumption and the financial crisis provides mixed  
26 findings, thereby demonstrating that establishing causality between financial crisis effects  
27 and firm performance is no easy task. While Mikesell (1994) assumes that in periods of  
28 economic crisis, people are less risk averse and find it more attractive to play lotteries, Gu  
29 (1999) and Raab and Schwer (2003) show a dramatic decline in the propensity to spend on  
30 gaming during the Asian financial crisis of 1997–1998. Mao and Gu (2007) and Youn and Gu  
31 (2010) find that the casino industry is more recession-proof than the hospitality industry in  
32 general. Horváth and Paap (2012) find that only lottery consumption appears to be recession-  
33 proof, whereas casino gambling and pari-mutuel wagering expenditure were affected by the  
34 economic recession. Similarly, Cantor and Rosentraub (2012) do not find that US casinos  
35 perform better than other forms of tourism during the recession. Finally, Olason et al. (2015)  
36 find that national economic recessions have differential effects on gambling behavior, with an  
37 increase in gambling participation, except for EGMs, which declined significantly after the  
38 economic collapse. This study posits the following hypothesis.  
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3 *H4.* Compared to the period before the financial crisis, Italian gambling SMEs' economic  
4 performance decreased during the 2008 financial crisis.  
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10 Moreover, previous studies find different results for different games. For example,  
11 Horváth and Paap (2012) and Olason *et al.* (2015) find an increase in lotteries and a decrease  
12 in casino-type games, including EGMs, over the recession period. Therefore, by introducing  
13 interaction terms, this study explores whether the effect of the financial crisis is different  
14 across the types of gambling business segments, as well as across CG mechanisms analyzed,  
15 even though no specific directional hypothesis is formulated.  
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### 25 **3. Methodology and results**

#### 26 *3.1 Research context: Italian gambling SMEs*

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28 Italy is the world's 8th largest economy, the Eurozone's 3rd largest economy, and among the  
29 top 10 international tourism income countries (Cook *et al.*, 2010). Besides its relevance to the  
30 global economy and its position in the general hospitality and tourism industry, Italy provides  
31 a unique setting and is an ideal context for the present study for the following four main  
32 reasons: its gambling industry, the economic crisis, the CG scenario, and the strong  
33 prevalence of SMEs.  
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43 First, in Italy, gambling is a widespread phenomenon. The overall industry contributes  
44 about 8 billion euros a year to public finance. The overall volume of gambling business is  
45 equivalent to 4% of Italian GDP. The average per capita expenditure for national games  
46 during 2013 amounted to 1,260 euros. According to research published by MarketLine  
47 (2014), Italy accounted for 26.2% of Western Europe's casino and gaming industry value in  
48 2013. This performance is expected to increase, with an anticipated CAGR of 8.7% for the 5-  
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3 year period of 2012–2017, which is expected to drive the sector to a value of \$32.3 billion by  
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5 the end of 2017.

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7 Second, Italy was hit heavily by the global economic crisis, more than other EU member  
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9 states. In 2008 and 2009, the Italian GDP decreased by 1.2% and 5.1%, whereas the 27  
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11 countries of the EU had an average GDP increase of 0.5% and a decrease of 4.3%,  
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13 respectively. In 2010, Italy's recovery was more modest than other EU countries (+1.5% vs.  
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15 1.8%) (OECD, 2011). In particular, the crisis peaked in seriousness at the end of 2011, when  
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17 sovereign debt and yields of Italian bonds increased dramatically. Notwithstanding the above  
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19 figures, the decline in GDP (–1.9% in 2013), and the increase in the unemployment rate (this  
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21 was 12.2% in 2013), the gross gaming revenues (GGR) of the Italian casino and gaming  
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23 industry had a CAGR of 2.9% between 2008 and 2012 (the EU of 0.3%) (MarketLine, 2013).  
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25 In particular, Italian gaming revenues increased from €28.5 billion to €47.5 billion in the  
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27 period 2005–2008 (+68%), and from €54.4 billion to €87.1 billion in the crisis period 2009–  
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29 2012 (+60%).  
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34 Third, in Italy, CG mechanisms often do not adequately protect minor investors. Italy is  
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36 the favorite example in the literature of a country in which controlling owners exploit  
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38 minority shareholders (e.g. Enriques and Volpin, 2007), especially in unlisted companies.  
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40 Hence, such a civil law country is a good context for investigating how CG performs  
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42 compared to common law countries (e.g. the UK or US).  
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45 Finally, 99.9% of the firms in Italy are SMEs, which are defined as employing fewer  
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47 than 250 people (OECD, 2006). This is also the case for the structure of Italian gambling  
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49 firms, which are characterized by the presence of four large casinos, 10 major dealers, and a  
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51 large number of very small firms. This is consistent with casino industries in EU countries,  
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53 which are quite small, especially compared to US casinos (Eadington, 2011).  
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### 3.2 Sample construction and data collection

A sample of unlisted Italian gambling firms was extracted from AIDA (*Bureau van Dijk*), a database containing accounting and governance data for a large number of Italian companies. At the time of the data collection (July 2015), 427 Italian firms belonged to division 92 (*Gambling and betting activities*) of the NACE Rev. 2 industry classification. After excluding a number of firms and time-observations for different reasons, the final sample includes 355 firms across 8 years, which is an unbalanced sample of 2,135 observations.

### 3.3 Econometric model and variable description

The general econometric model adopted for testing our hypotheses is:

$$\begin{aligned} \text{PERFOR}_{it+1} = & \beta_0 + \beta_1 \sum_{X=1}^5 \text{OWN}_{iX} + \beta_2 \text{BOARD}_i + \beta_3 \text{GENDER}_i + \beta_4 \sum_{X=1}^3 \text{SEGMENT}_{iX} + \beta_5 \text{CRISIS}_i \\ & + \beta_6 \text{SIZE}_{it} + \beta_7 \text{LEV}_{it} + \beta_8 \text{AGE}_{it} + \beta_9 \text{ONLINE}_i + \beta_{10} \sum_{X=1}^2 \text{REGION}_{iX} + \\ & \beta_{11} \sum_{X=1}^5 \text{OWN}_{iX} * \text{CRISIS}_i + \beta_{12} \text{BOARD}_i * \text{CRISIS}_i + \beta_{13} \text{GENDER}_i * \text{CRISIS}_i + \\ & \beta_{14} \sum_{X=1}^3 \text{SEGMENT}_{iX} * \text{CRISIS}_i + \varepsilon_{it} \end{aligned}$$

where:

PERFOR: 1-year leading firm performance proxied by the profitability ratios return on equity (ROE) and ROA;

$\sum \text{OWN}$ : a set of five variables proxying for ownership, that is, the percentage of shares owned by the ultimate largest shareholder (insider, family, foreign, individual, and financial institution owners);

BOARD: total number of board members;

GENDER: dummy variable proxying for the CEO's gender; it takes a value of 1 if the CEO is a female, and 0 otherwise;

$\sum \text{SEGMENT}$ : a set of three dummy variables proxying for four business segments, that is, bingo, videolottery, and other (LBOs is the reference category);



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3 CRISIS: dummy variable proxying for the economic crisis; it takes a value of 1 for the  
4 years 2009–2012, and 0 otherwise;

7 SIZE: firm size proxied by the natural logarithm of total assets;

10 LEV: leverage proxied by the debt/equity ratio;

12 AGE: firm age measured by the number of years the firm has been in existence;

14 ONLINE: dummy variable proxying for remote games; it takes a value of 1 if the firm is  
15 authorized to provide online games, and 0 otherwise;

18  $\Sigma$ REGION: a set of two dummy variables proxying for three Italian regional areas, that is,  
20 South and Central (North Italy is the reference category).

22 This study includes *SIZE*, *LEV*, *AGE*, *ONLINE*, and *REGION* as control variables that  
24 might affect gambling firms' performance.

### 29 3.4 Descriptive and univariate statistics

31 Table 1 provides a breakdown of the sample's characteristics across business segments. Our  
32 sample is composed mainly of LBOs. Interestingly, VLTs show larger size than other  
33 segments, probably because they do not operate online and thus, they need a greater amount  
34 of tangible assets. In addition, VLTs are younger (about 5 years) than other segments, thereby  
35 confirming the recent explosion of this gambling segment. Compared to previous studies in  
36 US casinos finding an average leverage of 53% for the 1999–2003 period (Tsai and Gu,  
37 2007), our sample shows a very low level of leverage (about 12%). Ownership is on average  
38 highly concentrated, with family firms owning 79% of the shares in Italian gambling firms,  
39 foreign firms 95%, insiders 71%, individuals 68%, and financial firms 100%. With regard to  
40 the board of directors, the average size is about three. A strong presence of male owner–  
41 managers is found.

56 INSERT TABLE 1 ABOUT HERE

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3 As shown in Panel A of Table 2, families and insiders typically control gambling firms,  
4 while equity control by financial institutions is far less common, confirming previous  
5 analyses of the Italian ownership structure (e.g. Faccio and Lang, 2002). Panel A shows  
6 statistically significant differences for the means of main independent and control variables  
7 on performance. Both proxies used, ROE and ROA, are statistically different among the  
8 ownership types as well as business segments. Family firms perform better than other firms  
9 do (e.g. they show an ROE that is, on average, twice that of foreigner-owned firms), while  
10 financial-owned firms show negative performances. As for business segment, LBOs (the  
11 most common category of activity) together with the residual category (“others”)  
12 underperform compared to bingo and VLTs. In general, these preliminary statistics confirm  
13 that it is relevant to consider both ownership and business segment type when analyzing  
14 gambling firm performance.  
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29 Panel B of Table 2 shows that online firms outperform firms that are not online, although  
30 this difference is significant only for ROA. For the crisis period, since both performance  
31 proxies show approximately the same values in the years preceding the financial crisis and  
32 during the crisis, it might be concluded that the economic recession does not seem to impact  
33 on the performance of gambling firms. Finally, firms located in southern regions of Italy,  
34 which are also the poorest, are those with higher performance, thereby supporting the idea of  
35 an inverse relationship between socioeconomic position and gambling consumption (e.g.  
36 Beckert and Lutter, 2013).  
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47 INSERT TABLE 2 ABOUT HERE  
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49 Table 3 shows the mean and median, one-way analysis of variance (ANOVA), and test for  
50 the trends of profitability ratios by year. Both performance proxies show highest values for  
51 2006 and 2011, and a drastic reduction in 2012. However, since a high difference exists  
52 between the mean and median –15% and 7% for *ROE* during the 2005–2012 period—this  
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3 study first performed a one-way ANOVA, showing significant differences of performance by  
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5 year, thereby partially contrasting prior results on performance before and during the  
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7 financial crisis. Then, this study performed a non-parametric Cuzick test for trends across the  
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9 years and this test is not significant, although a follow-up using both the t-test and the Mann-  
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11 Whitney test confirmed statistically significant differences for 2006 and 2011 compared to  
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13 the earlier and later years for both performance measures. The higher performance for 2006 is  
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15 undoubtedly related to the deregulation law (the so-called Bersani Decree No. 223 of August  
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17 2006), which opened the Italian gambling market to foreign dealers and introduced the  
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19 possibility of playing instant lotteries online. This relevant change has led to the allocation of  
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21 158 new licenses, equivalent to 13,686 sales points. Similarly, in March 2011, Italian  
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23 licensees began to offer online poker and added online casino games.  
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28 INSERT TABLE 3 ABOUT HERE

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30 The Pearson correlation matrix (not tabulated for the sake of brevity) of the variables  
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32 investigated shows both performance proxies to be significantly related to the independent  
33  
34 and control variables used. Only *CRISIS* and some ownership types (*INSIDER* and  
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36 *INDIVIDUAL*) do not seem to be correlated to performance.  
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### 40 41 *3.5 Multivariate regression results*

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43 Since our data were both cross-sectional and longitudinal, and random effects (RE) were  
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45 present, this study adopted an RE panel model in the econometric analysis. In fact, since our  
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47 independent variables of interest (*OWN*, *BOARD*, and *SEGMENT*) were time-invariant, fixed  
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49 effects could not be estimated without dropping these independent variables. To reduce  
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51 potential endogeneity issues characterizing the relationship between ownership and firm  
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53 performance, this study introduced timing in our regression models by leading the dependent  
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3 variable from the independent variable. However, by following Tsai and Gu (2007), this  
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5 study also checked for endogeneity, and simultaneous equation bias was not found.  
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7 Table 4 shows the results of random panel regression analysis, using clustered standard  
8 errors, with *ROE* as the dependent variable. Model 1 shows the impact of only control  
9 variables on *ROE*. Variables traditionally affecting performance (*SIZE* and *LEVERAGE*) are  
10 statistically significant with the expected sign. In addition, *SOUTH* is significant, thereby  
11 showing that firms located in southern Italy have higher performance than others do.  
12 Surprisingly, online gambling firms do not show higher performance than firms that are not  
13 online. This could be due to the stronger presence of organized crime in online gambling and  
14 its ability to manipulate games, thereby reporting less revenue than actually earned.  
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25 Models 2 and 3 introduce ownership types as well as board size and CEO gender,  
26 respectively. Although not all ownership type variables are statistically significant, all  
27 coefficients are negative, thereby confirming the general idea of a negative relationship  
28 between ownership concentration and non-listed firm profitability (e.g. Arosa *et al.*, 2010).  
29 For example, in the case of insider-owners, for which the mean and median ownership  
30 concentration in our sample is more than 70% (which is exactly equal to the average ultimate  
31 control stake of the largest controlling shareholder of 70.71% found by Faccio and Lang,  
32 2002), the negative sign is in line with previous results showing that after a level of  
33 ownership of 68.2%, profitability decreases as directors' ownership increases up to 100%  
34 (Keasey *et al.*, 1994).  
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47 There is a statistically significant relationship between performance and foreigner-owned  
48 and financial-owned gambling firms, although only financial-owned firms have the expected  
49 negative sign, and thus, this study can accept *H1e*. Therefore, only for financial-owned  
50 gambling SMEs can it be inferred that entrenchment effects of insider ownership exist  
51 (Morck *et al.*, 1988). Prior research finds institutional ownership of casinos to be positively  
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3 related to performance (Tsai and Gu, 2007), but in a completely different setting, such as US  
4 publicly traded casinos.  
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7 With regard to the role of the board of directors, this study accepts *H2a*, as the larger is  
8 the board, the higher is the performance. This result supports the notion that the board of  
9 directors plays a monitoring role in the possible opportunistic behavior of management, since  
10 the board controls the actions of management and advises it on strategies to be adopted due to  
11 the directors' wealth of knowledge. Especially in complex environments and technology-  
12 intensive industries, such as gambling, larger boards bring more experience, knowledge, and  
13 support (Dalton *et al.*, 1999), as found by Al-Najjar (2014) for listed tourism firms. Since a  
14 larger board means greater diversity, this result seems to support the upper echelons theory.  
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25 On the contrary, CEO gender does not seem to affect performance (thus, this study  
26 rejects *H2b*), in line with previous studies in the hospitality industry (Yeh and Trejos, 2015).  
27 Therefore, although recent findings that CEO leadership positively influences firm  
28 performance in the hospitality industry (Huang *et al.*, 2016), some demographic features  
29 suggested by the upper echelons theory, such as CEO gender, do not impact gambling firm  
30 performance.  
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38 Models 4 and 5 introduce variables proxying for the business segment type and the crisis  
39 effect, respectively. *BINGO* and *VLT* show a higher performance than do other gambling  
40 firms, while the variable *CRISIS* is negative but not statistically significant. However, when  
41 interaction terms (Model 6) are included to capture the moderating effect of the crisis on the  
42 business segment, bingo shows a synergic effect. Indeed, the interaction term *BINGO x*  
43 *CRISIS* is significant and positive, and thus, these gambling firms have higher performance  
44 during the crisis period. Instead, the interaction term *VLT x CRISIS* is not significant. In  
45 addition, while the interaction specifications of the crisis effect and ownership type are not  
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3 significant, a positive effect of the board on performance can be observed during the crisis  
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5 period.  
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10 This study repeats regression analysis for *ROA* (not tabulated) instead of *ROE* and the  
11 findings obtained by replacing the dependent variable are very similar. However, in this case,  
12 while evidence is found of reduced performance for all gambling firms during the crisis years  
13 (thereby supporting *H4*), *VLT* has a significant and positive sign, confirming their higher  
14 *ROA* performance compared to other business segments (the interaction term *VLT x CRISIS* is  
15 again not significant). This result, which supports *H3*, is more relevant if the *VLT* segment is  
16 considered to have higher tangible assets.  
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#### 27 **4. Discussion and conclusion**

##### 28 *4.1 Conclusions*

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30 To cope with the negative impact of the financial crisis on international tourism, the tourism  
31 industry needs an accurate estimate of the effect of the crisis on the performance of all  
32 gambling firms, both casinos and smaller gaming-related firms. A peculiarity of Italian  
33 legislation is that while the legalization and liberalization wave has enabled the dissemination  
34 of a huge number of gambling SMEs offering different kinds of games, that process of  
35 liberalization did not simultaneously provide the opportunity to establish new casinos. Thus,  
36 while the four Italian casinos are increasing the number of amenities they can offer, their  
37 viability is also related to the success of other gambling firms, especially in recessionary  
38 times.  
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52 As the findings in the literature on the relationship between CG and financial  
53 performance have been inconclusive and this relationship has been found to differ among  
54 industries, our motivation was to deepen understanding of the association between board,  
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3 ownership structures, and performance in the global financial crisis era, focusing on a sample  
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5 of unlisted Italian gambling SMEs during 2005–2012. Our results show that ownership  
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7 concentration of both financial-owned and foreign gambling firms is negatively related to  
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9 performance, while the board exerts a role in increasing performance in terms of ROE. The  
10  
11 financial crisis does not impact the performance of Italian gambling firms in terms of ROE,  
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13 while a significant relationship is found in terms of ROA. Since this different impact could be  
14  
15 related to the proportion of assets across different gambling business segments, this study  
16  
17 explores the interaction between these segments and the financial crisis. Interestingly, some  
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19 business segments, such as bingo, perform even better during the financial crisis years. This  
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21 result seems consistent with prior research showing that the effects of economic recession  
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23 vary according to type of games (e.g. Horváth and Paap, 2012; Olason *et al.*, 2015).  
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#### 29 30 *4.2 Theoretical implications*

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32 The notion that industries, such as gambling, outperform during a financial crisis as a result  
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34 of increased games consumption should to some extent be rejected from a firm-level  
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36 perspective. Gambling firms' performance does not vary significantly across the 2008–2012  
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38 years of the financial crisis compared to the previous period, although some specific business  
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40 segments show some advantages from the crisis period. Therefore, the consumer and firm  
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42 levels offer very different perspectives and scholars should be aware of this when they  
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44 investigate the gambling industry. By integrating agency cost theory and upper echelons  
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46 theory with the traits of small gambling firms, this study offers evidence for and throws new  
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48 light on CG advantages in terms of their significance on firm performance.  
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#### 54 55 *4.3. Practical implications*

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3 The findings of this study can help both investors and managers to gain greater awareness of  
4 which CG mechanisms are effective for their gambling firms, by reducing the ownership  
5 concentration (especially for financial-owned and foreign-owned firms) and increasing the  
6 size of the board of directors. Indeed, the results provide a better understanding of the role of  
7 boards of directors in firm performance in the gambling industry. Given that many SMEs are  
8 reluctant to appoint outside directors, as this implies a perceived loss of control, expanding  
9 the number of board members could be a relevant solution to improve economic  
10 performance, especially in recession times.  
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21 Since CG is considered an approach to further develop and professionalize tourism  
22 organizations and improve management skills, managers of smaller gambling firms  
23 especially could benefit from the effective implementation of CG. In addition, a full  
24 understanding of the CG determinants of gambling firms' performance might be critical for  
25 casinos and their performance. Indeed, the analysis developed in this study might help the  
26 existing four Italian casinos, as well as casinos of other countries, to understand which is the  
27 most appropriate CG model adopted by their smaller competitors and how it can positively  
28 influence performance.  
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39 Regulators and policymakers could benefit from the results of this study about how these  
40 firms perform during different periods of an economy's cycle, given the relevant contribution  
41 that the financial performance of gambling SMEs make to government revenues. While the  
42 Italian government depends on the tax revenues of a huge number of gambling SMEs, and  
43 these revenues are stable even during periods of negative economic fluctuations, by  
44 excluding the establishment of new casinos, the Italian government is implicitly limiting the  
45 possibility of increasing gaming-related tourism. However, since the propensity of Italians to  
46 spend their income on gaming services is very strong around the world, this policy might  
47 reduce outbound gaming-related tourism, or the movement of people abroad for their  
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3 gambling amusement. By ensuring the viability and profitability of a large number of  
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5 gambling SMEs, the Italian government could both aim to increase the flow of inbound  
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7 tourists attracted by other gaming services (e.g. bingo) and to limit outbound gaming-related  
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9 tourism, thereby maintaining the level of gambling expenditure within national boundaries. In  
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11 this sense, regulators might wish to expand the role of bingo and videolottery, given their  
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13 higher performance compared to other business segments.  
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#### 19 *4.4 Limitations and further research*

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21 This work has some limitations. Some variables, such as ownership concentration, were not  
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23 observable across time. However, the number of outstanding shares of a firm is usually  
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25 (almost) fixed, especially in the case of SMEs, and thus, there is no theoretical reason to  
26  
27 obtain incorrect conclusions. Another issue concerns variable proxies for business segments  
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29 (e.g. LBOs, VLTs, and bingo), since these proxies might not capture the real categories of  
30  
31 gambling firms and their games supply. Therefore, further investigations should analyze the  
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33 role of single games on firm performance. Furthermore, since the gambling industry can  
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35 either promote social wellbeing (through new employment, increased tourism, development  
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37 of cities, and higher revenue for the State) or destroy the welfare of a country (through  
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39 additional social costs generated by pathological gamblers, organized crime, and increased  
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41 poverty), additional research might be required to investigate the links between gaming  
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43 consumption choices by individuals, and the performance of gambling firms across European  
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45 countries, paying attention to the huge differences that exist across these countries in terms of  
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47 national laws and local regulations, consumer habits, and firm typology.  
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Table 1 – Descriptive statistics (means) by business segment

	Business segment				
	LBO	Bingo	VLT	Other	All segments
No. companies	197 (55.5%)	101 (28.5%)	42 (11.8%)	15 (4.2%)	355
No. observations	1,115 (52.2%)	697 (32.6%)	228 (10.7%)	95 (4.5%)	2,135
Size	4,998,209	3,698,176	11,089,887	6,124,031	5,274,430
Leverage	11.83	13.2	13.78	8.26	12.32
Age	13.18	7.48	4.92	10.91	10.34
Online	.19	.01	0	.06	.11
North	.34	.35	.47	.40	.36
Centre	.27	.27	.25	.22	.27
South	.38	.38	.28	.38	.37
Insider	.73	.67	.73	.79	.71
Family	.77	.79	.90	.87	.79
Foreign	.98	.89	.95	1	.95
Individual	.69	.67	.58	.79	.68
Financial	0	1	1	0	1
Board	2.46	2.95	3.33	1.91	2.69
Gender	.22	.13	.09	.29	.18

Table 2 – Statistical differences in means for main independent and control variables on performance

Panel A – One-way Anova of ownership and business segment on performance

	Ownership					Business Segment			
	Insiders	Family	Foreign	Individual	Financial	LBO	Bingo	VLT	Other
N=2,135	699	782	297	326	31	1,115	697	228	95
ROE	.15	.18	.09	.15	-.02	.12	.19	.19	.11
F-test			4.08**				6.42***		
ROA	-.07	.12	-.06	.08	-.02	.04	.11	.13	.05
F-test			34.40***				20.62***		

Panel B – One-way Anova and t-test of online, crisis, and region on performance

	Online		Crisis		Region		
	Online firms	Not-online firms	Pre-crisis years	Crisis years	South and Islands	Centre	North
N=2,135	231	1,904	866	1,269	788	573	774
ROE	.15	.12	.15	.15	.21	.11	.12
F/T-test		1.31		.12		13.24***	
ROA	.08	-.05	.08	.07	.13	.01	.06
F/T-test		8.17***		.87		45.61***	

Significance: \*\*\*(.001); \*\*(.01); \*(.05).

Table 3 – Descriptive statistics, one-way Anova, t-test, and test for trend of dependent variables by year

Statistics	2005	2006	2007	2008	2009	2010	2011	2012	2005-2012
<i>N</i>	141	173	259	293	329	343	324	273	2,135
<i>ROE</i>									
<i>Mean</i>	.13	.22	.13	.14	.15	.14	.21	.07	.15
<i>Median</i>	.05	.17	.04	.04	.07	.05	.14	.05	.07
<i>ROA</i>									
<i>Mean</i>	.09	.13	.07	.04	.04	.06	.12	.04	.07
<i>Median</i>	.05	.07	.04	.04	.04	.05	.07	.03	.05
<i>ROE</i>									
One-way Anova test (Fisher)									3.83***
Test for trend (Cuzick'z)									-0.44
<i>ROA</i>									
One-way Anova test (Fisher)									6.51***
Test for trend (Cuzick'z)									-0.65
Follow-up	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012		
<i>ROE T-test</i>	-2.00*	2.42*	-.26	-.60	.57	-2.48*	4.45***		
<i>Mann-Whitney</i>	-2.15*	2.78**	-.26	-.92	.76	-2.82**	4.25***		
<i>ROA T-test</i>	-1.67	2.80**	1.14	-.30	-1.43	-3.37***	4.48***		
<i>Mann-Whitney</i>	-1.74	2.68**	.76	-.12	-1.17	-3.21**	4.54***		

Significance: \*\*\*(.001), \*\*(.01), \*(.05).

Table 4 – Results of random panel regression with clustered standard errors (Z-statistics in brackets)

Dependent Variable=ROE	Exp sign	Model 1 $\beta$ (t-stat)	Model 2 $\beta$ (t-stat)	Model 3 $\beta$ (t-stat)	Model 4 $\beta$ (t-stat)	Model 5 $\beta$ (t-stat)	Model 6 $\beta$ (t-stat)
Control variables							
Size	+	.037*** (4.37)	.045*** (5.51)	.038*** (4.51)	.035*** (4.15)	.036*** (4.23)	.037*** (4.50)
Leverage	-	-.076** (-2.88)	-.074** (-2.82)	-.077** (-2.85)	-.076** (-2.79)	-.076** (-2.81)	-.072** (-2.70)
Age	+	.000 (0.25)	-.001 (-0.48)	-.000 (-0.20)	.001 (0.74)	.001 (0.82)	.001 (0.87)
Online	+	-.052 (-1.18)	-.033 (-0.74)	-.011 (-0.24)	.033 (0.71)	.035 (0.73)	.038 (0.81)
Centre	-	-.002 (-0.05)	.014 (0.44)	.010 (0.32)	.009 (0.30)	.009 (0.29)	.000 (0.27)
South	+	.107*** (3.89)	.095*** (3.47)	.103*** (3.71)	.105*** (3.78)	.105*** (3.78)	.101*** (3.63)
Ownership variables							
Insider	-		-.049 (-0.89)	-.034 (-0.62)	-.039 (-0.72)	-.038 (-0.71)	-.046 (-0.61)
Family	-		-.024 (-0.48)	-.015 (-0.30)	-.018 (-0.38)	-.018 (-0.38)	-.037 (-0.56)
Foreign	+		-.133* (-2.24)	-.212*** (-3.42)	-.208*** (-3.32)	-.207*** (-3.31)	-.194** (-2.80)
Individual	-		-.046 (-0.75)	-.024 (-0.39)	-.029 (-0.47)	-.029 (-0.46)	-.012 (-0.13)
Financial	-		-.255* (-2.51)	-.215* (-2.10)	-.247* (-2.44)	-.248* (-2.45)	-.372* (-2.14)
Board variables							
Board	+			.016* (2.47)	.015* (2.38)	.014* (2.36)	.003* (0.53)
Gender	+			.006 (0.20)	.017 (0.59)	.018 (0.60)	.041 (0.84)
Business segment							
Bingo	?				.072* (2.57)	.072* (2.55)	.005 (0.15)
VLT	+				.102* (2.47)	.104* (2.52)	.058 (1.14)
Other	?				.023 (0.41)	.023 (0.40)	.004 (0.05)
Crisis effect							
Crisis	-					-.009 (-0.45)	-.017 (-0.23)
Interactions terms							
Insiders*Crisis							.000 (0.00)
Family*Crisis							.009 (0.11)
Foreign*Crisis							-.036 (-0.39)
Individual*Crisis							-.042 (-0.41)
Financial*Crisis							.180 (1.05)
Board*Crisis							.019** (3.26)
Gender *Crisis							-.033 (-0.58)
Bingo*Crisis							.115** (2.69)
VLT*Crisis							.067 (1.18)
Other*Crisis							.025 (0.28)
(Constant)		-.413*** (-3.44)	-.471*** (-3.81)	-.422*** (-3.38)	-.427*** (-3.39)	-.434*** (-3.44)	-.581*** (-4.33)
N=2,135							
R <sup>2</sup>		3.64	5.29	8.54	11.35	11.30	10.88
Wald (Sig.)		47.15***	66.90***	71.05***	75.22***	76.55***	102.96***

Significance: \*\*\*(.001), \*\*(.01), \*(.05).