Panel data analysis of ownership structure and board effectiveness influence on GCC bank performance

Abstract. This study aims to analyze the influences of board directors’ effectiveness and ownership on bank performance among the six Gulf Cooperation Council (GCC) countries: Saudi Arabia, UAE, Oman, Kuwait, Bahrain, and Qatar. Five hypotheses were singled-out for further approbation. Unbalanced secondary panel data were collected from 68 banks with a total of 268 observations for the period 2012-2015. During this period, the economy of GCC was experiencing the fall of oil price that resulted in low GDP, increase fiscal deficit, reduction of banks reserves and decline in banks’ profitability and the share prices. These were the critical years to the banks in GCC countries as their performance was crucial. Besides facing diplomatic crisis in the following years, GCC countries strived to improve their financial sector. Secondary data was obtained from banks’ annual reports, websites of stock exchange and Thomson Reuters Datastream. The findings revealed a significant association between board of directors’ effectiveness, government-owned banks, and GCC national ownership with the banks’ performance. Findings also showed the best board structure for banks and the need to unify the regulations among the six countries. As for the policymakers, the outcome of this study might indicate needed reconsideration of the legal infrastructure and facilitates of investment as well as signal to management, investors and auditors the best ways to invest and control the banks. The outcome may help to enhance closer ties among the GCC countries.

Keywords: Board Effectiveness; Foreign Ownership; Local Ownership; GCC; Bank Performance

JEL Classifications: G21; G32; G34

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The finance sector was hit by the global financial crisis of 2007-2008. As a result, the international banking system became severely affected. Even though the crisis did not directly affect the Gulf Cooperation Council (GCC) countries which is comprised of six countries (Saudi Arabia, UAE, Oman, Kuwait, Bahrain and Qatar), the Council suffers from the downturn in global economic activities, especially after the decline in oil prices.

Recently, with low oil prices and the occurrence of geopolitical turbulence in countries neighboring to the GCC, profits have slumped and growth rates have declined. This has negatively impacted the GCC markets, the financial performance of the overall banking sector share prices and clients’ behavior (KPMG International Cooperative, 2017) [1]. Due to these developments, GDP growth among Middle Eastern and North African (MENA) countries grew slowly at 2% in 2013, which is lower by 2% than in 2012, showing 3% in 2014. The economics of the GCC states also grew at 5.2% in 2015, a decline from 7.7% in 2011 (IMF, 2013) [2]. However, the market performance of the GCC region fell from 22.98% in 2013 to 5.58% in 2014 (MSCI, 2017) [3].

In 2015, GDP improved to 3.8% but sharply decreased to 2.2% and 0.5% in 2016 and 2017, respectively. In addition, the low oil price affected the fiscal balance that changes it from 2.2% and 0.5% in 2016 and 2017, respectively. Furthermore, the oil price negatively impacted the GCC markets, the financial performance of the overall banking sector share prices and clients’ behavior (KPMG International Cooperative, 2017) [1].

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Despite the above, the separation of ownership and control that exists in the banking system between the shareholders and management may lead to a rise in agency conflict. This is congruent with the agency theory which emphasises that managers are responsible for and have the right to access any kind of information unless they are prevented from doing so and provided the reason to protect and maintain company confidentiality. Therefore, the board of directors has to play the role of monitoring the managers. Hence, it is convenient to say that having effective board members is one possible way of reducing agency problem (Fama and Jensen, 1983) [5]. As a result of this conflict and corporate governance has been implemented in the GCC countries over the last decade. Despite the fact that there have been some significant gains and improvements in the practices of corporate governance, the sector is still facing some challenges, especially in the context of disclosure, risk management and board structure and practice.

This is particularly evident in the banking sector as it constitutes 60% of the region’s overall financial structure (Saidi, 2011) [6]. There is a need to continue reviewing strategies which can help in enhancing the ways that will strengthen and improve governance mechanisms, influence the management’s self-interest to align with interests of the stakeholders, customers and suppliers (Dalwai et al., 2015) [7]. Furthermore, there is also a need to examine governance mechanisms comprehensively as the key determinant of effectiveness of board characteristics that maximises, and protect
shareholder interests. In the same vein, governance mechanisms are complementary to each other. Therefore, it is necessary to consider these mechanisms on a whole, because separating corporate governance mechanisms may lead to mixed findings (Ward et al., 2009) [8]. Pillai and Al-Malkawi (2018) [9] in their studies reveal that only few studies are related to corporate governance among the GCC countries and the findings are inconclusive. Furthermore, the studies focus more on board characteristics, whereas little consideration is given to the performance of the banks. Therefore, this is still an avenue to research the way the code of corporate governance differs in terms of its board characteristics among the six GCC members. In addition to this, ownership in the banking sector in the GCC region is mostly attributed to governments or family members.

Loghod (2010) [10] declares that family concentrated ownership and legal barriers are the main causes for foreign ownership being limited in the GCC banking sectors. Such concentration provides opportunities to gain greater power, since family members are able to intervene in policy development as well as set up regulations that suit their own interests. It is estimated that the value of outward remittances from the GCC countries officially exceeded USD 37 billion, due to which the GCC is considered to be among the biggest remitting regions in the world (Naufal, 2011) [11]. It is very important to take into account whether the GCC region will benefit from the reduction in restrictions regarding foreign ownership which is characterised mainly by family concentration.

Since the GCC is regarded as one integral economy, there is a need to establish closer ties among them. This effort requires harmonisation between the accounting and governance regulations through which cooperation can be enhanced in order to unify the standards that lead to improvement in the effectiveness of GCC financial institutions. Thus, it is vital to seek insights on the effectiveness of board and ownership in the performance of GCC banks.

2. Brief Literature Review and Hypotheses

Board Effectiveness

A good quality board alliance with better governance may support the banks’ monitoring role and ultimately enhance the performance. Thus, a larger board size and independent directors relate to better firm performance (Nazir and Afza, 2018) [12], while higher ranking board independence is associated with greater firm value (Zhu et al, 2016) [13]. In contrast, a small board size with diverse experience and knowledge, allows easy coordination and communication (Al-Saidi and Al-Shammari, 2013) [14]. Klein (1998) [15] found no relationship between the presence of board committees and firm performance. It is therefore important to view corporate governance mechanisms as a joint combination of mechanisms which ensures that the interests of shareholders are protected (Ward et al., 2009) [8]. Thus, it is hypothesised that:

H₁: The effectiveness of the board of directors is positively related to bank performance.

Ownership

Sturm and Williams (2004) [16] reported that the efficiency of foreign banks is greater than that of domestic banks in Australia. Despite the fact that foreign investments led to improved profits and firm growth, it also exposed investors to the risk of expropriation by investee companies and nations (Qian and Strahan, 2001). Hence, in the GCC region, the presence of foreign ownership is negatively associated with performance (Li et al., 2018) [18].

In liberalising its economy, Bahrain’s government permits 100% foreign ownership of assets for businesses in certain sectors (World Trade Organization, 2014) [19]. Oman permits foreigners to own only 70% of business assets in the country (OmanARIO, 2013) [20] while the other GCC members limit foreign ownership by non-GCC nationalities to 49%. Meanwhile, in the GCC countries, shareholders related to the domestic banking sector are limited to institutions, governments or families, thus creating a barrier for foreign banks to enter their local markets. Thus, in the GCC, there is limited foreign ownership as mandated by law and bilateral agreements among the GCC, which also limit the operation of foreign banks in these countries. It is hypothesised that:

H₂: Foreign ownership has a significant effect on financial performance and board effectiveness.

H₃: Foreign ownership in GCC countries negatively related to bank performance.

Banks owned by governments tend to be more competent regarding credit risks and are averse to bankruptcy (El-Bannan, 2015) [21]. Thus, concentrated bank ownership showed better performance and higher earning power (Ozili and Uadiya, 2012) [22]. Corporate governance in Chinese firms increased the financial performance of state-owned firms in the market (Kang and Kim, 2012) [23].

Most GCC banks are owned by either the government or family members, which limits the entry of foreign ownership (Loghod, 2010) [24]. Thus, there is a lack of correlation between ownership concentration and bank performance. Meanwhile, family and public ownership influences the bank performance (Zouari and Taktak, 2014) [25]. Furthermore, firms that have government ownership increase their value (Beuselinck et al., 2017) [26].

In the GCC, family-owned firms account for approximately 60% to 70% of businesses, generating approximately USD 100 billion annually. Moreover, government ownership has a significant effect on financial performance in most GCC countries (Pillai and Al-Malkawi, 2018) [9]. In addition, institutional ownership is important for firms to perform effectively (Abdullah et al., 2008) [27]. Literature dedicated to the GCC market is still insufficient since most studies were conducted in the developed countries and results were mixed (Abraham, 2013) [28]. Thus, it is hypothesised that:

H₄: Government-owned banks are positively related to bank performance.

H₅: Private owned banks are positively related to bank performance.

3. Purpose

The purpose of this paper is to examine the determinants of market-based performance of banks in GCC countries, which includes the effectiveness of the board of directors, foreign ownership and local concentrated ownership.

4. Results

To research the subject, we conducted a panel data analysis using data from 68 banks from the six GCC countries, covering the period between 2012 and 2015. The period was chosen because during this time, the banking sector in the GCC was facing serious challenges in its financial operations due to the fall of oil prices, decline in GDP, increase of fiscal deficit and decrease in bank reserves. Following these issues, the GCC countries faced a diplomatic crisis with the occurrence of political differences in 2016, which later led to diplomatic relations cut-off in some states in 2017. The crisis affected the financial flows and the mobility of capital (IMF, 2017) [4]. As a result, it mitigated the movement of investors and shareholders in the region. Due to this, the ownership and boards structures in the GCC region were also affected.

The relevant data were obtained from three different sources: banks’ annual reports, websites of the securities markets and Thomson Reuters Datastream. Only banks for which the data were complete were used for further analysis. However, the two banks that were used in the sample were found to be established during the period of the study and therefore fulfilled only 2 years of the data requirement. As a result, unbalanced panel data was obtained and was used for the analysis. In order to assess the determinants of bank performance, an unbalanced fixed effect panel analysis was employed based on the following regression model:

\[ \text{Tobin's Q} = \beta_0 + \beta_1 \text{Private Owned} + \beta_2 \text{Foreign Owned} + \beta_3 \text{Government Owned} + \epsilon \]

Tobin’s Q is the dependent variable and a proxy for banks’ performance. The independent variables are the board of directors’ effectiveness (BODEF), the ownership (GOVERN) of GCC banks (GOVERN), the private owned banks (PRIVOWN),
GCC ownership (GCCOWN) and foreign non-GCC ownership (OTFRGNOWN). The four control variables are the bank size (BSIZ), the bank age (BAGE), the bank leverage (BLEV), and the previous year’s return on equity (PRVRoe).

The main tool used to measure performance is Tobin’s Q, measured by the equity market value (market capitalization) and divided by the equity book value, as a proxy for bank performance. The ratio is then transformed into the logarithm. These dependent variables used in this study to proxy board effectiveness are the board size, the number of independent directors, board meetings, non-executive members and board committees. These five characteristics were transformed into an index value where each characteristic used a dummy variable of 1 when the value was equal or above the sample median and 0 otherwise.

The local concentrated ownership was proxies of either government-owned or private banks. The dummy variable 1 is used for major ownership either by the government or private owners and 0 otherwise. This paper defines two types of foreign ownership in GCC countries’ banks. The first type is ownership by foreigners, who were permitted to own capital up to 100% in any business sector in any GCC country but were constrained by the council protocol and agreements among GCC countries. The second type is ownership that is restricted by the public law of the GCC countries. As for foreign ownership, the measurement used in the study was the percentage of ownership by two categories of foreigners in the public market, namely ownership by other GCC nationals and ownership by non-GCC nationals. Based on previous research by Zouari and Taktak (2014) [25], and Nazir and Afza (2018) [12], this study employs the bank size, the bank age, the leverage and the return on the equity of the previous year as control variables. These variables were generally found to represent the impact on financial performance.

In preparing the data for the analysis, the non-normality distribution data of variables were winsorized (a central tendency is given) at the 1st and 99th percentile levels. As for the multicollinearity test shown in Table 1, this study found no serious problem of multicollinearity as the TOL is below 0.88 and VIF is less than 2.3, where the acceptable values for the tolerance should be less than 1.0 and VIFs not more than 10, to show only a little or no multicollinearity (Gujarat, 2012) [10]. Therefore, there is no intercorrelation of the independent variables in the data.

Table 2 reports the descriptive statistics for all the variables. The average score for performance using Tobin’s Q is 0.75. The average score for the variables measured by the board effectiveness is 3.2. The average score for the board effectiveness index is 3.2. On average, government-owned banks represent 14.18%, private banks - 54.5%, GCC-owned banks - 14.6%, and other foreign-owned banks - 8.1%.

Table 3 presents the regression result using the fixed effect method and shows that the overall model is a good fit at the 1% level with R² of 29.4% (F-stat 10.43). The results reveal that the board of directors’ effectiveness (BODEF) is negative. It not significantly related to the banks’ market performance (t = -3.33, p < 0.01). GCCOWN is not supported, which implies that a board of directors of GCC banks with a high combination of characteristics seems to have less effect on the share price of banks and fails to enhance the bank value in the market.

The result contradicts Nazir’s and Afza’s (2018) [12] findings, which documented that board characteristics seem to be positively related to the firm’s performance. This may be due to problems in coordinating the decision-making process, to communicate information, and attract investors. Moreover, large board membership may cause communication problems and carry more risk (Al-Saidi and Al-Shammari, 2013) [14].

On the other hand, the ownership by GCC nationals (GCCOWN) of up to 100% shows a significant positive relationship with the bank financial market performance (t = 3.56, p < 0.01). H₆ is supported in line with Sturm and Williams (2004) [23] and Chin et al. (2013) [5] who show that foreign ownership enhances investment and leads to increases in profits and firm growth. Ownership by other foreign non-GCC nationals, which is restricted by the law of the GCC countries, is found to be negatively insignificant on bank performance. H₇ is therefore not supported. This finding supports prior research which has documented that foreign investments expose investors to risk (Chin et al., 2013) [5]. The different results for the two types of foreign ownership may be due to whether full ownership was allowed to foreign investors, which would likely motivate market performance. This means that there are collectively increasing facilities for the inflow of foreign investments which probably benefit the host country. This is in contrast to foreign ownership limited by law for the reason that the banks may block foreign investors’ IPO due to the scope of ownership being already occupied. It might also be due to the lack of information held by the investor, as they have weak representation in top management.

This result presents an insight to regulators and policymakers to reform their legal infrastructure in the GCC to allow foreign investors to invest their income internally rather than remitting it outwards.

GCC government-owned banks show a significant positive relationship with bank performance (t = 4.68, p < 0.01), which supports H₇. This finding is in line with Beuselinck et al. (2017) [4] who show that firms with government ownership have lower costs and an increase in value. This means that investors in the GCC are more confident of those banks that operate with higher capital and are supported by the governments, especially in unexpected investment circumstances. Banks owned by local private
sectors show a negative relationship with bank performance (\( r = -0.70, p = 0.84 \)), therefore \( H_1 \) is not supported. This is consistent with Zouari and Taktak (2014) [25] who found a lack of correlation between ownership concentration and bank performance. This may imply that the private sector faced a serious competitiveness and there is a need for the government to encourage local investors and offer further facilities and incentives to them.

5. Conclusion

This paper has investigated the association between the effectiveness of the board of directors as a composite measure of the board of directors' characteristics (size, meetings, independence, non-executive members and number of board committees), local block shareholders of banks (government-owned and private banks) and the two types of foreign ownership (other GCC nationals and non-GCC nationals) with the GCC bank market performance in the business environment of GCC countries.

GCC banks should reconsider reducing their board structure as the findings show that large boards have less influence on the bank market performance. Furthermore, GCC governments should expand ownership and attract more investors among the GCC members to invest in their countries. Therefore, it is recommended that GCC countries should reassess their legal tax and investment infrastructures to make them more attractive to investors.

The results offer implications on theory and practice. An effective board of directors is important to ensure good governance and better performance of GCC banks. Evaluating the performance of banks is useful in helping the related users such as regulators, depositors, clients and bank managers in making decisions as well as in implementing appropriate regulations. It also acts as a reminder to investors and depositors on the right time to invest or withdraw their investment from the banks.

One of the limitations of the study is that only banks that are listed on the GCC security markets were considered, thereby ignoring the non-listed banks and other financial firms. Therefore, the findings might not be generalised to other financial companies or non-listed banks. Furthermore, this paper focused on panel econometric tests, whereas future studies can explore the optimal combination of variables. In this aspect, one interesting avenue is the use of machine learning techniques to find the optimal corporate governance structure that can result in the best firm performance, such as the evolutionary algorithm as explored by Nor and Zawawi (2016) [19]. Finally, this study indexed only five characteristics for board composite effectiveness and a measurement for corporate governance quality that comprises other internal and external corporate governance mechanisms was not included in this study.

This study may be extended in several ways. Besides using Tobin’s \( Q \), other measures could be used to represent bank performance. Also, very little is known about the culture of GCC countries, which could be one of the unique characteristics that may impact bank performance in addition to family ownership and gender. This could be a potential area for future studies.

References


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