# THE IMPACT OF IAS 36 ON EQUITY VALUES: EMPIRICAL EVIDENCE FROM UAE

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## Abstract

Amortization requirement of goodwill asset is one of the most controversial issues in financial reporting. This study provides empirical evidence on whether goodwill amortization has significant impact on equity value. It analyses the information content of goodwill amortization in the determination of firm's market valuation by Emirates Financial Market Listed companies that clearly reported goodwill amortization over the period 2003 to 2012 inclusive. Evidence suggests that there is a statistically significant association between equity market values and goodwill amortization in the determination of firms' market valuation, concluding that the UAE market perceives goodwill amortization as having information content when valuing firms and the use of standardized amortization requirement may be appropriate.

Keywords: Goodwill Amortization, IAS 36, Impairment Review, DFM, ADSM, Equity Markets

### **1. INTRODUCTION**

The Statement of Financial Accounting Standards (SFAS) 142 "Goodwill and Other Intangible Assets' was issued by the Financial Accounting Standards Board (FASB) in July 2001. This standard requires goodwill be recognised, as the prior standard did under the purchase method, but does not require the amortization of goodwill. Instead, it requires goodwill be reviewed if evidence exists that goodwill of a reporting unit has been impaired. Goodwill will be considered impaired if the fair value of the reporting unit's goodwill is less than its carrying amount. In July 2001, the International Accounting Standards Board (IASB) identified the accounting for goodwill as a high priority. The international board commenced a project on Business Combinations, including the recognition and measurement of acquired goodwill, and the amortization and impairment approaches. Finally, the IASB came up with the International Accounting Standard (IAS) 38 "Intangible Assets" that requires the amortization of goodwill, which becomes mandatory in Europe in 2005 (Shahwan, 2008). Thus, the issue of goodwill amortization has an international significance as the IAS 38 has been adopted in several countries is now in conflict with US GAAP.

This study empirically investigates the information content of goodwill amortization, the expense, in UAE equity markets. The UAE is a prosperous emerging economy that is "first world" in all significant aspects. UAE equity markets are active and accounting regulators in the UAE have indicated a clear preference for transparency and accountability. IASs are currently mandatory in UAE. A study based in the UAE is not necessarily generalizable outside the UAE, but it would be useful to provide a guide to other emerging equity markets. According to the sample companies of the study, goodwill represents the excess of the cost of the acquisition over the fair value of identifiable net assets of a subsidiary or associate at the date of acquisition. If goodwill is to be amortized, then it is amortized using the straight-line method over the expected period of benefit being 10 years. As the sample of the study includes only listed companies in Emirates Financial Markets, they apply the International Accounting Standards (IAS) in accounting and financial reporting.

### **2. PREVIOUS STUDIES**

Accounting for goodwill has been one of the most controversial issues in contemporary accounting. According to Davis (1996), it is argued that any arguments for investigations to goodwill accounting and disclosure practices must take into consideration how current capital market participants use intangible data. Among other capital markets research, McCarthy and Schneider (1995), Jennings, et al. (1996), Godfrey and Koh (2001), and Shahwan (2004) have supported the notion that asset goodwill has information content with respect to the market. It has been argued that the market reaction to goodwill numbers is not the only valid indicator of information content, but the market response is a major factor. As these researches are found of direct implications for this study design and hypotheses, they are briefly reviewed below.

McCarthy and Schneider (1995) analyse the market perception of goodwill as recognized by US GAAP in the determination of the firm's valuation. Their sample consists of all firms listed in the US and who reported goodwill in the years 1988 to 1992. They estimate a model that includes both statements of financial position and performance components to explain the market value of the firm. They find a positive and significant relationship between reported goodwill and firm market value. They also find that goodwill has coefficient values greater than those of other assets in all years under study. They overall conclude that goodwill appears to be perceived by the market as significant and the market values goodwill, at least, to the same degree as it values other assets.

Jennings et al. (1996) investigate whether goodwill asset and expense numbers are related to the market value of US firms for the period 1982 to 1988. To address the financial position statement issue, they estimate a model that relates market value of equity to components of accounting net assets, including net goodwill. To address the financial performance statement issue, they estimate a model that relates market value of equity to components of expected future earnings, including goodwill amortization. In their balance sheet model they find a strong positive association between equity values and reported goodwill asset amounts. They find in their earnings capitalization model a weak negative association between equity values and goodwill amortization, suggesting that such association may vary substantially across firms.

Godfrey and Koh (2001) investigate whether capitalization of research and development (R&D), other identifiable intangibles as a group (eg. patents, brand names, mastheads, licences), and unidentifiable intangible assets (goodwill) affects the market value of equity in Australian firms. Their sample is based on 172 firms with reported intangible assets for the year 1999. In order to evaluate the value-relevance of capitalized intangible assets, they initially develop a model that relates the market value of equity to the book value of capitalised tangible and intangible assets and liabilities. They then extend the scope of their initial model to allow for individual parameters for goodwill, R&D and other identifiable intangibles. In their initial model they find a strong positive association between total intangible assets and equity market values. In their extended model they find a strong positive association between reported goodwill and equity market values and goodwill coefficient has the largest value compared to other variables in the regression model. They also find a negative and insignificant association between R&D and firm market value. They conclude that not all types of capitalized intangible assets are valuerelevant. The capitalization of goodwill and identifiable intangible assets add value to firm valuation. The market places greater value on capitalized goodwill than on other financial position statement items. They also find that the capitalization of R&D costs is not value-relevant to firms' valuation.

Although IAS 36 requires an annual goodwill impairment test and a one-step impairment test, it still allows discretion in making a number of choices in relation to impairment This view is supported by studies showing how principle-based standards could be applied in different ways and at different times. This is due to differences both in terms of accounting practices, i.e. the difference between de jure harmonization (harmonization rules) and de facto harmonization (harmonization practices), and in terms of country- specific factors such as legal, fiscal, cultural and political values (Ashiq and Lee-Seok 2000, Laghi 2006, Swanson, Singer and Downs, 2007; Glaum et al. 2013).

Despite the massive amount of research in accounting for goodwill, very little attention seems

to be given to investigate the information content of goodwill amortization. Previous studies are conducted in established economies and they find that capitalization of goodwill assets is valuerelevant to valuation firms. However, no study has attempted to assess whether investors place value on goodwill amortization when valuing firms in emerging economies like that of the UAE. This situation needs further investigation in order to contribute to the current debate. Thus, this study analyses the market perception of goodwill amortization in the determination of market valuation in UAE. It is the first attempt to provide a guide to emerging markets in accounting for goodwill after the application of IFRS.

#### **3. ISSUES OF THE PAPER**

In UAE, the official and licensed financial markets are Abu Dhabi Securities Market (ADSM) and Dubai Financial Market (DFM). Such emerging equity markets are looking to the established countries' equity markets for guidance in developing systems of accountability and transparency that are essential to facilitate the markets. Thus, ADSM and DFM are primarily concerned with obliging listed firms to disclose information about the financial position and performance of the firm in accordance with IASs requirements. With the conflict that has just emerged between the two major sets of standards, IAS and US GAAP, with respect to goodwill amortization, research would be useful to guide emerging markets.

Given that goodwill should be recognized [(McCarthy and Schneider, 1995), (Jennings et al, 1996), and (Godfrey and Koh, 2001)], the issue with respect to the statement of financial performance is whether goodwill maintains its value indefinitely or it declines in value over time. Evidence that the market perceives goodwill amortization as not having information content when determining the value of the firm would provide some support for the proposition that investors view goodwill as assets that are expected to maintain its value standardized indefinitely; thus amortization requirement for goodwill may be inappropriate, and the annual impairment test required by SFAS 142 that allows firms to review goodwill balance annually to determine whether it should be reduced in value may have the potential to better represent the performance of the firm. On the other hand, if this evidence does not exist, the performance of the firm may be represented better by allowing firms to systematically amortize goodwill over its duration life. So, the above discussion calls for the following research question: "Does the market perceive goodwill amortization as having information content when valuing firms in UAE?"

#### 4. THE SAMPLE

The study examines the market valuation of Emirates firms reporting goodwill amortization during the period from 2003 to 2012 inclusive. Starting from 2011, Emirates Financial Markets Listed firms apply the International Accounting Standards (IASs). With respect to accounting for intangibles, IAS 38 requires goodwill be recognized and systematically amortized over a period not to



developed below.

(MVE) is given by:

exceed 20 years

The sample includes firms listed in ADSM and DFM that have clearly recorded some goodwill amortization in their year-end financial statements during any of the years under study. Therefore, the sample is selected on the basis of the following four criteria:

1. Domiciled in the UAE

2. Listed on the licensed Financial Markets in the UAE and these are Abu Dhabi Securities Market or Dubai Financial Market.

3. Clearly reported goodwill amortization at year-end of 2003 to 2014 inclusive.

#### **5. RESEARCH DESIGN**

The objective of this paper is to examine the

$$MVE_{e} = MVA_{e} - MVL_{e}$$

(1)

Where

 $M^{A}$ ft-1 = Market value of assets of firm f at the end of year t.

 $M^{II}$ ft-1 = Market value of liabilities of firm f at the end of year t.

Aware of the theory that there is no optimal capital structure (Miller, 1977), Landsman (1986) developed the theoretically benchmark coefficients of MVA and MVL to be +1 and -1 respectively.

It was argued that the market value of company equity might be explained better by a model that includes a stock concept of value (i.e., dividends) and a flow concept of earnings (Ohlson, 1995). Based on previous research, three variables have been used as a proxy of earnings. The first is the clean surplus which is defined as the change in the net book value of the firm from the beginning to the end of the fiscal year plus cash dividends less new equity raised (McCarthy and Schneider, 1995). The second is the abnormal or unexpected income which is defined as current earnings minus the risk-free rate, times the beginning of period book value, i.e., earnings minus charge for the use of capital (Ohlson, 1995). Finally, a third proxy is net income. For the purpose of this paper, the measure that will be used as a proxy for income is the net profit for the year, INC, in which the US equivalent is the operating profit after tax. According to the above arguments, equation (1) would be expanded as follows:

information content of goodwill amortization when

determining the market value of the firm. To do so,

the paper develops a model that examines the

association between market value of equity and

goodwill amortization. The model is presented and

entity equation, which was firstly used in this

context by Landsman (1986). Reasons behind the

adoption of Landsman's model are; first, the statement of financial position identity helps to

contrast parameter values of the elements of the

model. Second, the market value of equity is the dependent variable in the present study. Under this approach, the market value of shareholder's equity

The model is based on the basic accounting

$$\begin{aligned} \text{MVE}_{\alpha} &= X_{\alpha} + X_{\gamma}\text{BVA}_{\alpha\gamma} + X_{\gamma}\text{BVL}_{\alpha\gamma} + X_{\gamma}\text{INC}_{\alpha} + X_{\gamma}\text{Div}_{\alpha} + \frac{1}{\alpha} \end{aligned} \tag{2}$$
  
Where  
$$\begin{aligned} X_{\alpha} &= \text{Intercept.} \\ ^{\text{BVA}}\text{ft-1} &= \text{Book value of Assets of firm f at the end of year t.} \\ ^{\text{BVL}}\text{ft-1} &= \text{Book value of Liabilities of firm f at the end of year t.} \\ ^{\text{INC}}\text{INC}_{\alpha} &= \text{Net profit for the year of firm f in year t.} \end{aligned}$$

 $INC_{r_{t}} = Net profit for the year of firm f in year t.$ Div<sub>tr</sub> = Dividends paid of firm f in year t. <sub>tr</sub> = error term of firm f in year t.

The focus in this paper is to examine the information content of the amount reported for goodwill amortization. To do so, the net profit for the year (the income measure), INC, is to be becomes: separated into net profit for the year before goodwill amortization, INCE, and goodwill amortization, AMORT. The expanded version of equation (2) becomes:

$$MVE_{t_{e}} = X_{0} + X_{1}BVA_{t_{e}1} + X_{2}BVL_{t_{e}1} + X_{2}INCE_{t_{e}} + X_{4}Div_{t_{e}} + X_{5}AMORT_{t_{e}} + t_{e}$$
(3)

Where

 $X_0 = Intercept.$ 

 $B_{VA_{ft-1}}^{0}$  = Book value of Assets of firm f at the end of year t.  $BVL_{ft-1}$  = Book value of Liabilities of firm f at the end of year t.

 $INCE_{f} = Net profit for the year excluding goodwill amortization of firm f in year t. Div_{ft} = Dividends paid of firm f in year t.$ 

 $AMORT_{ft} = Goodwill amortization of firm f in year t._{ft} = error term of firm f in year t.$ 

According to Gujarati (1995), multicollinearity may arise from the existence of a highly correlated linear relationship among the explanatory variables of the regression model. For the model of this study, the sample correlation of book value of assets (BVA) and book value of liabilities (BVL) exceeds 0.924 and it is also supported by Spearman's *p*, which is significant at 1% for all cases. Thus, it is apparent that the presence of severe multicollinearity exists and could result in drawing misleading inferences for the sample t-statistic. To alleviate this concern, the model is estimated in a net asset form. It is eliminated to replace the regression variables of BVA and BVL by one explanatory variable which is the book value of net assets (BVNA = BVA - BVL). Thus, equation (3) would be expanded as follows:

$$MVE_{e} = X_{o} + X_{c}BVNA_{e} + X_{J}INCE_{e} + X_{J}Div_{e} + X_{c}AMORT_{e} + e$$
(4)

Where

 $X_{a} = Intercept.$ 

 $B_{VNA_{ft-1}}^{V}$  = Book value of Net Assets of firm f at the end of year t. INCE<sub>ft</sub> = Net profit for the year excluding goodwill amortization of firm f in year t. Div<sub>ft</sub> = Dividends paid of firm f in year t.

AMORT<sub>t</sub> = Goodwill amortization of firm f in year t  $_{ft}$  = error term of firm f in year t.

However, evidence suggests that the net asset form of the study model have no significant problems of multicollinearity.

#### 6. RESEARCH HYPOTHESES

This section focuses on the model and the expected t-statistic values. The research question addressed in this study is whether the market perceives goodwill amortization as having information content when valuing firms. To answer this question, the following hypothesis is established:

Hypothesis: In the equation model (4) of the study, the t-statistic value of goodwill amortization coefficient (X<sub>2</sub>) is the one of interest. If (X<sub>2</sub>) is statistically significantly correlated with the firm's market value, then the market significantly perceive goodwill amortization as having information content when valuing the firm. To check this relationship the following null hypothesis is tested, against the alternative ( $X_{z}$ -t-statistic < 2.0):

H1: X<sub>s</sub>-t-statistic 2.0

#### 7. EMPIRICAL PROCEDURES AND RESULTS ANALYSIS

An econometric problem when estimating the study model is heteroscedasticity. It assumes that the disturbances appearing in the equity regression function of the sample have different variances. Heteroscedasticity disturbances arise from the fact that large firms tend to produce large disturbances and small firms tend to produce small disturbances. For the model of this study, the null hypothesis that the variance of the residuals of the model is consistent throughout the total sample is rejected at the 1% level of significance for all cases. Thus, it is apparent that the problem of heteroscedasticity is present and may lead to inconsistent estimates of

standard errors and overstated t-statistics. To alleviate this concern, all regression estimates, tstatistics and p-values are reported on White's heteroscedasticity adjusted standards errors. White (1980) establishes a procedure, which is known as the heteroscedasticity-constant covariance matrix estimators (HCCME) to control for heteroscedasticity. White's procedure produces consistent estimates of the standard errors in the presence of heteroscedasticity.

The model of this study, equation (4), is estimated to examine the information content of goodwill amortization. Table 1 reports the total sample regressions of OLS estimation based on White's Heteroscedasticity Adjusted Standard Errors for share price at year-end. The coefficient estimates for BVNA is positive and significant for the sample under study, as would be expected if these accounting measures represent underlying economic resources. Both the book asset goodwill and other tangible depreciable assets are expected to generate cash flows in the future, and required to be amortized/depreciated over the expected duration of the related cash flow stream. However, Barth and Clinch (1998) argued that cash flows associated with capitalized goodwill are more uncertain than those associated with tangible depreciable assets and that the duration of these cash flows is more difficult to assess. As a result, the book asset goodwill is more likely to represent the economic value of its underlying assets with error. Thus, it can be argued that the significant coefficient on BVNA for the sample can provide evidence on the power of the present study model specifications to detect a positive relation between equity market values and economic resources that may be less difficult to measure than recorded goodwill. In addition, even though the estimation of the study model is based on four regressors, the explanatory power (adjusted  $R^2$ ) of the study model is 0.6334.

Table 1. The OLS Statistics for the Model of the Study Based on White's Heteroscedasticity Adjusted Standard Errors

Year / Statistics /	X	X 0	X 6	X 3	$\overset{X}{4}$	Adj. K	<sup>2</sup> N
Predicted Sign		U	U	5	7	5	
Total Sample							
Regression Beta-value t-statistic p-value			2.7831 -2.1	876 -2.2	3989      14.3        2468      1.12        7891      0.45	212	334 2



Model:  $MVE_{rt} = X_0 + X_6 BVNA_{rt-1} + X_3 INCE_{rt} + X_4 Div_{rt} + X_5 AMORT_{rt} + T_{rt} BVNA_{rt-1} = Book value of Net Assets of firm f at the end of year t.$ 

 $INCE_{ft}$  = Net profit for the year excluding goodwill amortization of firm f in year t. Div<sub>ft</sub> = Dividends paid of firm f in year t.

AMORT<sub>ft</sub> = Goodwill amortization of firm f in year t.  $f_{tr}$  = error term of firm f in year t.

#### 8. DISCUSSION OF HYPOTHESES

In sample regressions, the variable of goodwill amortization (AMORT) is statistically significantly correlated with the market value of equity for the sample under study at the conventional level of significance. There are two possible explanations for the significance of goodwill amortization on equity market values for the sample under study. First, goodwill amortization is correlated with an omitted variable such as the expected future earnings that is not shown on the face of the financial statements. It could be argued that such an omitted variable could result in statistically insignificant coefficient for goodwill amortization even if the reported goodwill amortization is representing its underlying consumption. Second, the market views reported goodwill as an asset that is likely to generate future cash flows for an unlimited time and, therefore, it maintains its value indefinitely. Thus, it can be concluded that the market perceives goodwill amortization as having information content in the determination of firm's market valuation.

In addition, the regression coefficient on the reported goodwill amortization is statistically significant and highly exceeds two in absolute value. A possible explanation could be due to the assumption that empirical versions of BVA and BVL may systematically overstate the true value of the theoretical variables. Landsman (1986) argues that the historical cost measures of the book value of total assets and liabilities may systematically understate the market value for a variety of reasons. These include (1) book value measures do not include measures of off-balance sheet assets and liabilities; and (2) book value measures do not adequately capture the magnitude of the intangible assets owned by the firm such as internally generated goodwill.

#### CONCLUSION

This study seeks to broaden the understanding of the controversy surrounding goodwill accounting by examining the information content of goodwill amortization. In specific, it examines whether amortization of goodwill assets are value-relevant to investors in the determination of market valuation. The empirical test analysis yielded several interesting result. There is evidence that confirms the market perception of goodwill amortization as having information content when valuing firms, concluding that the use of standardized amortization requirement may be appropriate.

The market association test in this study is able to substantiate the issues addressed over amortization of goodwill by providing evidence supports the proposition that investors view goodwill as assets. Recorded (book) vales of assets are expected to be amortized systematically. If the value of the goodwill can be amortized systematically, then the best representation of the firm's performance may result from allowing firms to amortize goodwill values systematically. So, standardized amortization requirement for goodwill may be appropriate, and the annual amortization requirement may have the potential to better represent the performance of the firms.

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