

The Compliance of Methods of Implementation of IFRS: Study of the Impact on the Relevance of Accounting Information

Mohamed Rachid Ouezzani

Departement of Management,

National School Of trade and Management of Tangier, Morocco

Youssef Alami

Departement of Management

National School Of trade and Management of Tangier, Morocco

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Abstract

During the last two decades, many countries have chosen to implement the IFRS for at least one category of firms. According to Zeef and Nobes (2010), the implementation of IFRS can be classified into four methods. Thus, countries as Israel and South Africa have adopted the method “*implementation process*”, others as Canada, Australia and the European Union have opted for the method called “*Standard by Standard*” while that Switzerland applies the “*optional*” method; China has chosen the “*Not Fully converged*” method. The analysis of these methods of implementation of IFRS demonstrates that these latter differ in terms of degree of compliance with the IFRS as issued by the IASB. This difference of compliance with the IFRS led us to wonder if it affects the quality of accounting information through its qualitative characteristic the “relevance”.

To answer this question, we use an empirical model that we apply to a sample of listed companies from six countries opting for different methods of implementation of IFRS. The significant results found demonstrates that the compliance of methods of implementation of IFRS influences positively the relevance of accounting information and that this relevance is better for the listed companies of countries which have chosen a compliant method of implementation with the IFRS as issued by the IASB. These results complement the previous studies on the relevance of accounting information following the transition to IFRS and give

new significant proves on the impact of IFRS on the relevance of accounting information.

Keywords: IFRS, Implementation, Method, Compliance, Impact

1. Introduction

The number of countries that have adopted for the IFRS is important. According to the survey of the IFRS Foundation, over 115 countries require or permit the application of IFRS for at least one category of firms. The number of these countries increases every year.

The European Union has been a pioneer in this domain with its adoption of the regulation 1606/2002 making mandatory the application of IFRS as adopted by the Union for the publication of consolidated financial statements of listed companies. The adoption of this regulation by the European Union was a solution to several problems of harmonization. Indeed, this union of countries includes constantly new countries adopting divergent national accounting standards. Although several regulations have been adopted by the European Union in the past, the accounting harmonization between the countries constituting this Union remained inefficient. The implementation of IFRS by the European Union was an ideal solution for this problem of accounting harmonization.

Following this decision of the European Union, several other countries have chosen to implement the IFRS. Some of these countries have started the process of implementation early while others are until now in the phase of study of project of implementation of IFRS. In fact, the introduction of IFRS requires a certain preparation and the establishment of a strategy of implementation. Thus, after the studies established by the countries wishing to implement the IFRS, these latter have opted for the suitable methods of implementation.

Several factors may explain the choice of the method of implementation of IFRS by a country. In fact the countries that entirely trust the international standard setter have opted for an advanced method of implementation named by Zeef and Nobes "*due process*" or have chosen the sub-method "*IFRS as issued by the IASB*"; others countries wishing to keep some control over standards applied by their companies have opted for the sub-method "*fully convergence with IFRS*" or the sub-method "*IFRS with deletions*"; countries wishing to give their firms the choice between two or more repositories have opted for the "*optional*" implementation; those wanting to conserve certain accounting standards have opted for the method "*Not fully converged*".

According to their compliance with the IFRS as issued by the IASB, these methods have been classified by Zeef and Nobes (2010) into 3 categories: The first category includes the methods that are "*compliant*", the second contains those "*Possibly compliant*" and the last one the methods "*Unlikely compliant*". This classification has prompted us to ask the following question: Is that the compliance of methods of implementation of IFRS with the IFRS issued by the IASB influences the relevance of accounting information?

To answer this question, we have examined the various methods of implementation of IFRS enunciated by Zeef and Nobes (2008, 2010) that we introduce in the first section accompanied by a review of literature of studies on the relevance of accounting information. Through this literature review, we have examined the different models used by the previous studies and have chosen the model that provides the best results in terms of significance. Thus, we have opted for the model of Ohlson (1995). Next, we have formulated the research

hypotheses that we explain in the third section. In the fourth section we present the methodology as well as the sample selected. This later is constituted by companies listed on the stock market of six countries that have chosen different methods of implementation of IFRS. The significant results found that we report in the last section shows that the compliance of methods of implementation of IFRS influences- the relevance of accounting information. Also, they demonstrate that the relevance of accounting information is better in countries opting for compliant methods of implementation of IFRS with the IFRS issued by the IASB.

2. Literature Review

2.1. Methods of implementation of IFRS

The objective of the IASB is to make of IFRS an international accounting and financial standards. This is practically realized as enunciated by Gelard Gilbert. Indeed, this former member of the IASB made this statement on the basis of results of a study published by the IFRS Foundation. Based on the declarations of accounting standards authorities of 122 countries, this study has been established under the direction of Pacter (2014). It shows that the IFRS are today 'mandatory or widely used in more than 115 countries around the world.

According to the results found, from 122 countries, 101 require the use of IFRS for all or almost all domestic public interest entities (listed companies and financial institutions). Some countries, such as Australia, New Zealand and Hong Kong have adopted the IFRS as national standards. Two additional countries, Indonesia and Thailand, are in the process of adoption of IFRS. In addition to 101 countries, 10 countries including India, Japan, Switzerland and Singapore allow but not require the use of IFRS. Saudi Arabia and Uzbekistan require the IFRS only for the financial institutions.

In terms of number of companies adopting the IFRS, it is very difficult to get statistics. In addition to the 8,000 listed companies of Europe and the many foreign companies listed on the U.S. market that use the IFRS, the other entities which are unlisted and who have also adopted the IFRS make this operation difficult to establish. In fact, it requires making a detailed analysis by country.

In terms of companies concerned by the implementation of IFRS, most of countries that have required the IFRS, have made this requirement for the listed companies (excluding some financial institutions). Also, over 90% of the 101 countries that require the IFRS for listed companies require or permit these standards for most unlisted companies.

Concerning the IFRS for SMEs, the analysis of the report published by the IFRS Foundation reveals that 57 out of the 122 countries require or permit the norm IFRS for SMEs and 16 other countries are currently considering this option.

Also, the content analysis of report of the IFRS foundation shows that a large part of countries that have adopted the IFRS, have made very few changes to the text produced by the IASB. These changes are often considered temporary, as is the case in Europe concerning the IAS 39 underlined by the former member of the IASB Gilbert Gelard. In addition, the

report of the IFRS foundation stipulates that some countries or regions have differed the dates of application of certain standards, in particular the recent IFRS 10, IFRS 11 and the IFRS 12.

In terms of methods of implementation of IFRS, Zeef and Nobes (2010) have established a classification of these methods for listed companies and have retained four methods of implementation. Thus, according to these authors the implementation of IFRS conducted in South Africa and Israel is an implementation “*due process*”. It is the most advanced level of implementation and the most fairly close to IFRS issued by the IASB. By this method, the standards published by the process are automatically adopted by the country and applied by the firms concerned.

The second method of implementation of IFRS is called “*Standard by Standard*”. This latter is divided into 3 sub-methods: The first one is called “*IFRS as Issued by the IASB*”. It is considered as conform to IFRS issued by the IASB and consists in the adoption of IFRS published by the International normalizer after an automatic passage through the regulation. The only example given by the authors is the Canada. The second Sub-Method is called “*Fully converged with IFRS*”. It is adopted in Australia, New Zealand and Honk Kong and consists on making a complete convergence of national standards with IFRS. The third sub-method called “*As Issued by the IASB with deletions*” consists on the application of standards adopted locally. It is considered by Zeef and Nobes as possibly conform to IFRS Issued by the IASB.

The third method of implementation of IFRS is adopted in Switzerland and named “*optional*” method. It aims to provide to the companies of the country the option to adopt IFRS or to choose another accounting referential. As for the sub-method “*IFRS as Issued by the IASB with deletions*”, this method is considered as possibly compliant with the IFRS Issued by the IASB.

The fourth method of implementation of IFRS is called “*Not Fully converged*”. It is considered as Unlikely with the IFRS Issued by the IASB. Indeed, trough this method, the normalizer leaves intact some standards. China is an example of countries adopting this method.

In terms of dates of implementation of IFRS, this later differs. For countries as South Africa, Israel and the E.U., the IFRS must be applied by the concerned companies the 1st January 2005 while that in Canada the retained date is the 1st January 2011. However, for these countries, the entities were obliged to collect data according to IFRS since the opening exercise of the last year of implementation of IFRS. In China which has opted for an incomplete convergence, the date of application of the New Chinese accounting standards is the 1st January 2007 with no requirement to collect data according to the new converged accounting standards since the opening exercise of the last year of the implementation.

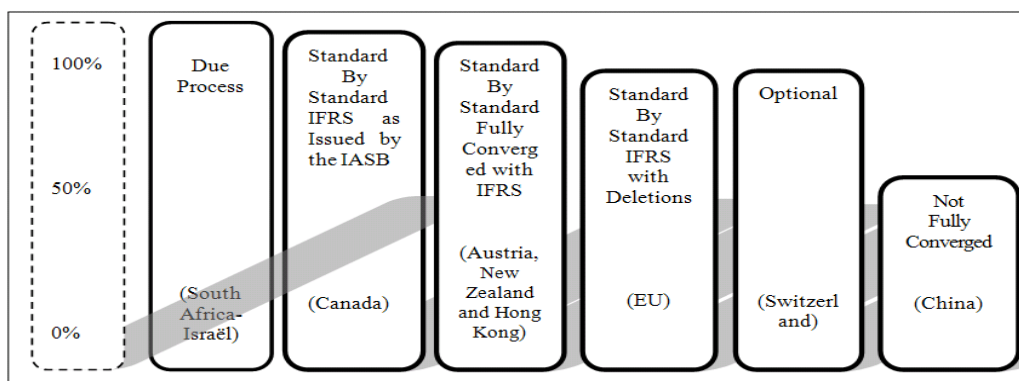


Figure 1. Methods of Implementation of IFRS for listed companies established by Zeff and Nobes

The figure 1 illustrates the classification established by Zeff and Nobes (2010) of methods of implementation of IFRS. It shows the four methods of implementation of IFRS for listed companies: “*Due Process*”, “*Standard By Standard*” with its 3 sub-methods, “*Optional*” and the “*Not Fully Converged*” implementation. It demonstrates the compliance of these methods and sub-methods of implementation with the IFRS issued by the IASB and gives some examples of adopters’ countries.

2.2. The Relevance of accounting information

The study of the relevance of accounting information for the determination of the continuous informational value (called utility of accounting approach) has retained the attention of several researchers in accounting since the work of Fischer (1911). Generally two approaches were chosen by the researchers for the treatment of this subject: The utilitarian approach and the economic approach.

2.2.1. The Utilitarian approach of measure of the Value

The utilitarian approach considers accounting as a principal provider of financial information. This approach has been criticized for its inability to predict the economic and the financial difficulties of firms. Researches that have used this approach can be classified into two categories: Those measuring the results and those searching to aggregate the measure of the financial value.

For the researchers using the results for the determination of the value of the company, these latter consider the accounting profits as a “*proxy*” of the financial value of the company. The supporters of this approach argue the idea that the accounting profit is the only relevant determinant of the value of a firm. The empirical studies analyzing the relevance of accounting information through this approach have been significantly influenced by the studies of Fisher (1911), Lindhall (1933) and Hicks (1946). These researches aim to determine the capacity of the accounting information to help the investors to make decisions as specified by Easton et al. (1992). Thus, they have evaluated the informational content of the accounting

information by the study of the reaction of financial market after the announcement of accounting income. The majority of these empirical studies have adopted the methodologies of “*reaction studies*” or “*event studies*”.

Other researchers have used the results for the determination of the value of the company. These latter have used another approach called the approach measuring the “*true value*”. This approach is centered on the methodology of “*association studies*”. The object of this methodology highlighted by Beaver and al (1980, 1989) and Collins and Kothari (1989) is to reduce the margin of error of models analyzing the relationship between the accounting information and the market value. These studies dissect the value of the company into three components: the “*true value*” which is the perfect measurement, the “*systematic error*” that measures the factors that are not identified by the explanatory variables and the “*random error*” that represent the hazard that distorts the measure of the value.

The second category of researches using the utilitarian approach to measure the global financial value has exploited the complementarity between the various determinants of the value. This approach is called “*abnormal profit*”. Thanks to works of Ohlson (1995) and Feltham and Ohlson (1995) this approach initiated by Preinreich (1938) has been revived. The researches using this approach can be split in two typologies: The first one is called “*imperfect measurement approach of the value*” and the second one is named “*evaluation by the abnormal earnings approach*”.

The objective of the approach of the imperfect measurement is to remedy to weaknesses of the informational content of accounting earnings in various contexts. It has led the accounting researchers to identify other determinants of accounting value (Dumontier and Raffournier, 2002). In fact, the empirical studies using this approach as highlighted by Walker (1997) reject the idea of measure of the value only by the results and consider the result as a measure among others. Two orientations are identified: The first one is focused on seeking the alternatives determinants of profit and is based on “*comparative studies associations*”. It consists in the comparison of various determinants of the accounting information with the result and the informational content of these determinants with the quality of the representation of the regression. The second orientation considers that the profit is not the only variable to explain the stock market value, but there are other determinants that allow accountants to further clarify the information content of the value.

The approach of evaluation of a firm by the abnormal earnings expresses the value of a company by the amount of capital invested and the future wealth created by the entity. Reflected in accounting terms, the model becomes equal to the sum of the book value of equity and the actualized abnormal earnings. The first work considering this approach is Ohlson (1995) and Feltham and Ohlson (1995). These authors start from a logic based on the distribution of wealth to guide their analysis to the measure of the wealth created by the use of the model of abnormal earnings. Bernard (1995) explains that the evaluation by the abnormal earnings approach is considered as a “*mixed*” approach because it includes several information from the balance sheet and the income statement.

2.2.2. The Economic approach of measure of the Value

The economic approach of the measure of the value of a firm implies that the accounting information is an economic good that is traded on a market. It supposes therefore an economic rationality. The supply and the demand of information by an economic agent are used to enable a rational choice between several possibilities. In this sense the economic agent will opt for the possibility that maximize its usefulness. At this stage of analysis, the information is fed into decision models. Thus, the information is relevant if its measure of the expected utility is uppermost (Salanie, 1994).

If we transpose the economic logic to accountancy, the supply and the demand of accounting information are dependent on various heterogeneous behaviors of producers and users of accounting information. Walker (1988) considers that the economic approach of measure of the value provides a "*scientific*" vision of the accounting information because it helps to solve the problems raised mainly by the followers of the positive accounting theory (Jensen 1976, p 11).

In terms of period and purpose, this approach can be divided into three phases: a first phase that has marked the accounting researches of the 70s and the 80s wishing to establish a theoretical basis of the value. Next, a second phase has begun in the late of the 80s. Its objective is to examine the influence of the alternatives on the choice of policies of evaluation of the company by borrowing the economic concepts of information. A third phase has focused on the study of the asymmetry of the information between managers / investors and investors / investors (Walker 1988).

2.2.3. Comparison between the approaches and choice of the appropriate model

The economic approach of measure of the accounting information aims to implement a new accounting research methodology for the evaluation of a company. In the assumption of an efficiency of information and a rationality of economic agents, the economic approach offers a "*theoretical basis*" model for the measure of the value of a firm. Indeed, this approach wants to remedy to weaknesses of the utilitarian approach. The reflections of Feltham (1968) and Butterworth (1972) on a possible merger between the economic approach of accounting information and the utilitarian approach via the reconciliation between the economic measure and the accounting value of the company has retained the interest of several searchers.

In terms of number and importance of results, the utilitarian approach of measure of the accounting information remains the dominant approach in terms of number and results of research. In comparison with the economic approach, the empirical studies of the utilitarian approach have succeed to explain the information content of the stock prices in a fairly meaningful way. Some models reached a maximum of 90% as illustrated by the table 1 below.

Table 1. Results of some important previous studies on the relevance of accounting information

Author	Study Period	Country	Sample	Results	Model Used
Bernard (1995)	1978-1993	United States	Between 670 et 712 Firm/Year.	29% R^2 <math>< 68\%</math>	Dividend Discount Model and Residual Income model
Frankel & Lee (1996)	1987 – 1994	20 Countries	24909 observations	70% R^2 <math>< 90\%</math>	Residual Income Model
Gragham & King (1998)	1987 – 1996	6 Asiatic countries	3655 observations	16% R^2 <math>< 90\%</math>	Residual Income model
Dechow & al. (1999)	1976 – 1995	United States	50133 observations	8% R^2 <math>< 40\%</math>	Residual Income model
Abukari & McConomy (2000)	1992 – 1996	Canada	2 090 observations	53% R^2 <math>< 68\%</math>	Dividend discount model
Francis & al. (2000)	1989 – 1993	United States	2 907 observations	74% R^2 <math>< 90\%</math>	Residual Income model
Shores & Bowen (2002)	1976 – 1997	United States	222 observations	52% R^2 <math>< 76\%</math>	Economic determinants

The Table 1 below provides a synthesis of results founded by some previous researches. It shows the importance in terms of number and results of searches using the utilitarian approach compared to the economic approach.

Based on the results of previous researches mentioned above, our choice in terms of approach is focused on the utilitarian approach.

3. Hypotheses Development

Several researches have studied the effects of the adoption of IFRS. An important part of these studies has concerned the countries of the European Union. In terms of results, several of these researches have proved that the adoption of IFRS has a positive impact on the quality of accounting information and that these standards have changed positively the constitution of several accounting and financial indicators that investors use to make decisions. These positive results have differed between the countries.

Taking as base the work of Zeef and Nobes who have proposed a classification of methods of

implementation of IFRS according to their compliance with the IFRS issued by the IASB. These authors have enunciated that the methods of implementation of IFRS chosen in countries such as South-Africa, Israel, Canada and Australia are compliant, those adopted by the European Union and the Switzerland are possibly compliant and the method chosen in China is Unlikely compliant with the IFRS issued by the IASB. Taking into account several results of previous studies showing the positive effect of the implementation of IFRS on the relevance of accounting information as illustrated by Morais and Curto (2009) who have noted through a sample of companies listed in 14 European countries that the relevance of the value of the financial statements of these countries has increased following their transition to IFRS, Chalmers et al. (2008) have found that the IFRS communicate more additional information for the investors in relation with the goodwill that the Australian standards and have shown (2011) that the benefits have become more relevant following the implementation of IFRS; these results demonstrate that the effect of IFRS on the relevance of accounting information is variable from a country to another; thus, these results leads to the first hypothesis:

H1: The Compliance of methods of implementation of IFRS with the IFRS issued by the IASB chosen influences the relevance of accounting information.

The difference of results illustrated by several studies demonstrate a better relevance of accounting information established in IFRS compared to the local accounting standards of several countries as proved by the study of Auer (1996) which have established that the information in IAS were moderately higher in informational content than the Swiss standards, the work of Bartov, Goldberg and Kim (2005) showing the high significant superiority of IFRS compared to the German local repository, Eccher and Healy (2000) which have founded that the accounting information in IFRS was slightly more relevant than Chinese standards; this prompts the second research hypothesis::

H2: The relevance of accounting information for the countries opting for a compliant method of implementation of IFRS has been more improved than that of countries that have opted for methods which are not compliant.

4. Methodology

In the present subsections, we present the data, the model used and explain how we compute our empirical measure of the relevance.

4.1. Sample Selection and statistics

The sample that we have chosen consists of companies listed on the stock market of six different countries. Each of these latter has opted for a different method of implementation of IFRS. Thus, the firms in our sample are listed on the main segment of the following markets: Israel, Canada, Hong Kong, France, Switzerland and China.

For the stock market data and the accounting data, they are from the Data base S&P Capital IQ. The observation period is 13 years from 2000 to 2012.

However, we have initiated a number of adjustments and eliminations in order to ensure

representativeness of the sample and avoid bias that can affect the results of our research. Thus, we have:

- Eliminated companies whose observations are not complete: information on equity, earnings, stock prices and standards adopted;
- Eliminated the extreme observations on equity, earnings, stock market value.

Table 2. Sample of companies selected by country

Implementation Method / Sub-Method Countries	Adoption Process Israel	Standard By Standard		Used For
		As issued by the IASB Canada	Fully Converged Hong Kong	
Selected Companies	88	399	191	Model 2
Initial observations	3674	16451	7842	
Observations Retained	3432	15561	7449	
Implementation Method Countries	Standard By Standard	Optional	Not Fully Converged	
	As issued by the IASB but with deletions United Kingdom	Switzerland	China	
Selected Companies	200	53	651	Model 1
Initial observations	7954	2145	21623	
Observations Retained	7800	2067	20625	
Total of Selected Companies		1582		
Total of Initial Observations		59689		
Total of Observations Retained		56935		

Source: The observations are from the database S&P Capital IQ

The table 3 below provides descriptive statistics of the sample for the variables (Market value at the end of period, Earning per share and Book Value per Share)

Table 3. Descriptive statistics of the sample by country

Countries	N. Firms		Average		St. Deviation		Q1		Q2		Q3		Min.		Max.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
Israel																
P	88	88	7.2	8.1	2,12	2.35	0.9	1.10	2.4	2.1	6.1	5.6	0.01	0.06	1348	1847
EPS	88	88	0.8	2.7	3,12	3.23	0.2	.3	3.1	2.8	4.3	4.9	0.03	0.08	547	614
BVS	88	88	6.8	8.5	3,43	3.12	0	0,1	4.1	3.8	6.8	6.4	0.04	0.02	6513	7784
Canada																
P	399	399	9,8	11	4,2	3.23	0.5	0.50	5.2	4.2	5.2	9.3	0.06	0.04	5479	4384
EPS	399	399	0.7	1.1	3.1	3.13	0.9	.9	1.6	1.9	6.9	7.6	0.09	0.06	1032	1971
BVS	399	399	4.1	7.3	2,4	2.3	0.0	0.0	3.6	3.7	3.8	4.1	0.08	0.01	8451	7541
Hong Kong																
P	191	191	24	29	2,12	2,12	1.5	1.7	2.9	3.2	3.7	3.2	0.07	0.06	8746	8674
EPS	191	191	0.5	4.1	1.1	1.1	0.0	0.1	3.7	4.9	4.6	4.9	0.06	0.03	1245	1351
BVS	191	191	16	21	2,2	2,2	1.7	1.4	4.5	4.1	7.2	8.7	0.02	0.01	9784	9478
U.K.																
P	200	200	40	47	1.2	1.2	0.3	0.21	3.3	2.1	6.3	5.1	0.02	0.01	9745	9614
EPS	200	200	0.3	0.2	2.1	2.1	1	.4	1.8	1.6	6.2	6.6	0.01	0.04	546	614
BVS	200	200	2	2.1	1.4	1.4	0.2	0.1	2.0	2.3	5.9	7.5	0.01	0.02	7548	7798
							0.0	8								
Switzerland																
P	53	53	15	12	2,12	2,12	0.11	0.1	3.1	4.11	5.2	5.7	0.05	0.03	8451	9475
EPS	53	53	0.7	0.6	4,12	4,12	0.1	0.0	4.4	5.1	9.4	8.4	0.01	0.01	951	784
BVS	53	53	11	10	3,12	3,12	1	1,4	4.6	3.1	7.6	6.7	0.04	0.02	8457	7845
China																
P	651	651	1.2	1.5	2,4	2,4	0.2	0.1	3.4	3.7	6.5	5.8	0.01	0.01	7458	9645
EPS	651	651	0.1	0.2	0.1	0.1	0.4	0.5	4.8	5.9	7.8	7.4	0.08	0.04	647	754
BVS	651	651	0.4	3.1	0.8	0.8	0.1	0.0	6.1	6.4	6.8	6.9	0.04	0.01	8472	9457

Source: The observations are from the database S&P Capital IQ

4.2. Empirical Model

The basic model that we use to measure the relevance of accounting information is the result of work of Ohlson (1995) and Feltham and Ohlson (1995). This model represents a current of

research of the evaluation of the value of a firm. Using a conventional approach of evaluation, it establishes a link between the financial statements and the market value. The approach of Feltham-Ohlson using accounting information for the financial evaluation simplifies the perception of this link: from the accounting data we pass directly to the value of market without the detour through the forecast dividends. This model has increased the productivity and has simplified the theoretical approach of evaluation of a firm.

This model highlights the importance of the accounting information that has been overlooked or undervalued by the financials for a long time. The Ohlson model represents the price at the end of the period via the earnings per share and the equity per share:

$$\text{Model (1):} \quad P_{it} = B_0 + B_1 \text{EPS}_{it} + B_2 \text{BVS}_{it} + B_3 \text{Compliance}_t + e_{it}$$

$$\text{Model (2):} \quad P_{it} = B_0 + B_1 \text{EPS}_{it} + B_2 \text{BVS}_{it} + e_{it}$$

With:

P_{it} : The Stock Market Value of the firm i at the end of year t (31/12/ t);

EPS_{it} : The Ratio of earnings per share of firm i in year t ;

BVS_{it} : The Ratio of equity per share related to firm i in year t ;

Compliance_t : A dichotomous variable which takes the value 0 in the case of no compliance of the Method of implementation chosen by the country to IFRS issued by the IASB and the Value 1 otherwise;

e_{it} : Other informational pertinence of firm i in year t

Thus, we use the Model 1 for the study of the effect of the compliance of the method of implementation of IFRS on the relevance of accounting information. The Model 2 is used for the comparison of the relevance between the countries adopting different methods of implementation of IFRS.

5. Results

To study the relevance of accounting information we have used the coefficient of determination R^2 . This coefficient shows the percentage of values explained by the proposed model. We have obtained the following results presented by Model.

5.1. A significant effect of the compliance of the method of implementation of IFRS on the relevance

The objective of the model 1 is to see if the compliance of the method of implementation chosen by a country influences the relevance of the accounting information. The analysis period is three years. The choice of this period is limited by the date of implementation of IFRS in Canada, the only one country having chosen the method of implementation called "*IFRS as Issued by the IASB*". Indeed, since 2011, the application of IFRS is mandatory for listed companies of Canada with an obligation to prepare the accounting information in IFRS for the previous year.

The results founded for the model 1 are quite significant with a coefficient of determination between 73% and 78% and a F. test between 602 and 624 for the years 2010, 2011 and 2012. These results reflect the good capacity of the model to explain the value of the stock market by accounting variables EPS and BVS and the dummy variable compliance.

In terms of variables, the results demonstrate that the three variables EPS, BVS and Compliance are significant at a level of 1% for the three years studied for the model1: 2010, 2011 and 2012. Thus, the compliance of the method chosen by a country with the IFRS issued by the IASB influences the relevance of accounting information. Also, the analysis of coefficient B_3 of the variable compliance shows that the relationship of this variable with the dependent variable is positive.

In terms of relevance of accounting information of all the countries of the sample having implemented the IFRS, the analysis of the coefficient of determination shows that the accounting information established in IFRS is relevant for the ensemble of the countries and explains the stock market value of listed companies.

Table 4. Results of Model 1

M(1): $P_{it} = B_0 + B_1 \text{EPS}_{it} + B_2 \text{BVS}_{it} + B_3 \text{Compliance}_t + e_{it}$				
		2010	2011	2012
Constant	B_0	-15,1450	-78,1140	-64,0090
	t	-2,5040	-3,9123	-3,8240
	Sign.	0,0140	0,0000	0,0000
EPS	B_1	0,6340	0,4240	0,3140
	t	7,4510	11,5350	6,5470
	Sign.	0,0000	0,0000	0,0000
BVS	B_2	0,7470	0,5450	0,6540
	t	35,9670	34,0100	38,2740
	Sign.	0,0000	0,0000	0,0000
Compliance	B_3	1,4870	2,0990	1,5780
	t	4,6480	4,4570	4,9780
	Sign.	0,0000	0,0000	0,0000
R2		0,7841	0,7490	0,7304
F		624,12	602,14	621,94
Durbin Watson		1,41200	1,6412	1,7170

5.2. Different degrees of improvement of the relevance following the Implementation of IFRS

The analysis of results of the regression of model 2 shows that the degree of variation following the transition to IFRS differs from a country to another. In fact, this variation is positive and very important for the countries as the United Kingdom that has opted for the method of implementation “*IFRS with deletion*”, Hong Kong adopting a “*Full convergence*” method and Israel implementing the IFRS by the “*Due Process method*”.

Thus, in Israel, Honk Kong, United Kingdom and Switzerland, the examination of results

shows that for the years following the transition to IFRS, the R2 was high which demonstrates a very good performance. This performance has been maintained at a high level after the application of IFRS with a coefficient R2 between 49% and 91%. In comparison between the period before and after the implementation of IFRS, the results demonstrate that the implementation of IFRS has improved the relevance of accounting information in Israel, Hong Kong, United Kingdom and Switzerland. In Canada, the results demonstrate that the relevance of accounting information has been maintained following the implementation of IFRS. In China which has adopted a “*not fully converged method*” for the implementation of IFRS, the results demonstrate a decrease in relevance following the transition to IFRS.

Table 5. Comparison of the evolution of R2 of Model 2 by country

Country	Method	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Israel	D.P.	48%*	39%*	34%*	41%*	39%*	41%*	36%*	84%*	69%*	74%*	67%*	89%*	86%*
Canada	I.I.	39%*	23%*	56%*	37%*	25%*	60%*	44%*	85%*	96%*	95%*	89%*	80%*	84%*
Hong Kong	F.C.	0,2%	0,1%	3%	1%	4%	1%	3%	9%	83%*	73%*	78%*	49%*	58%*
United Kingdom	I.D.	0,2%	0,8%	0,3%	0,4%	1,7%	92%*	94%*	91%*	92%*	63%*	84%*	72%*	70%*
Switzerland	O.A.	46%*	41%*	57%*	43%*	49%*	34%*	46%*	37%*	91%*	85%*	80%*	75%*	77%*
China	N.C.	88%*	96%*	98%*	95%*	96%*	94%*	88%*	53%*	91%*	83%*	82%*	73%*	76%*

D.P.: Due Process; I.I.: As Issued By the IASB; F.C.: Fully Converged; * Sig. 1%

I.D.: IFRS with Deletions; O.A.: Optional adoption; I.C.: Not Fully Converged; After IFRS

The table 5 above illustrates the variation of coefficient of determination R2 for the two periods before and after the transition to IFRS. It indicates an improvement of R2 following the transition to IFRS in Israel, Hong Kong, United Kingdom and Switzerland. A contrary result is observed in China. In Canada, the relevance of accounting information for the period after the implementation of IFRS has been maintained in a high level.

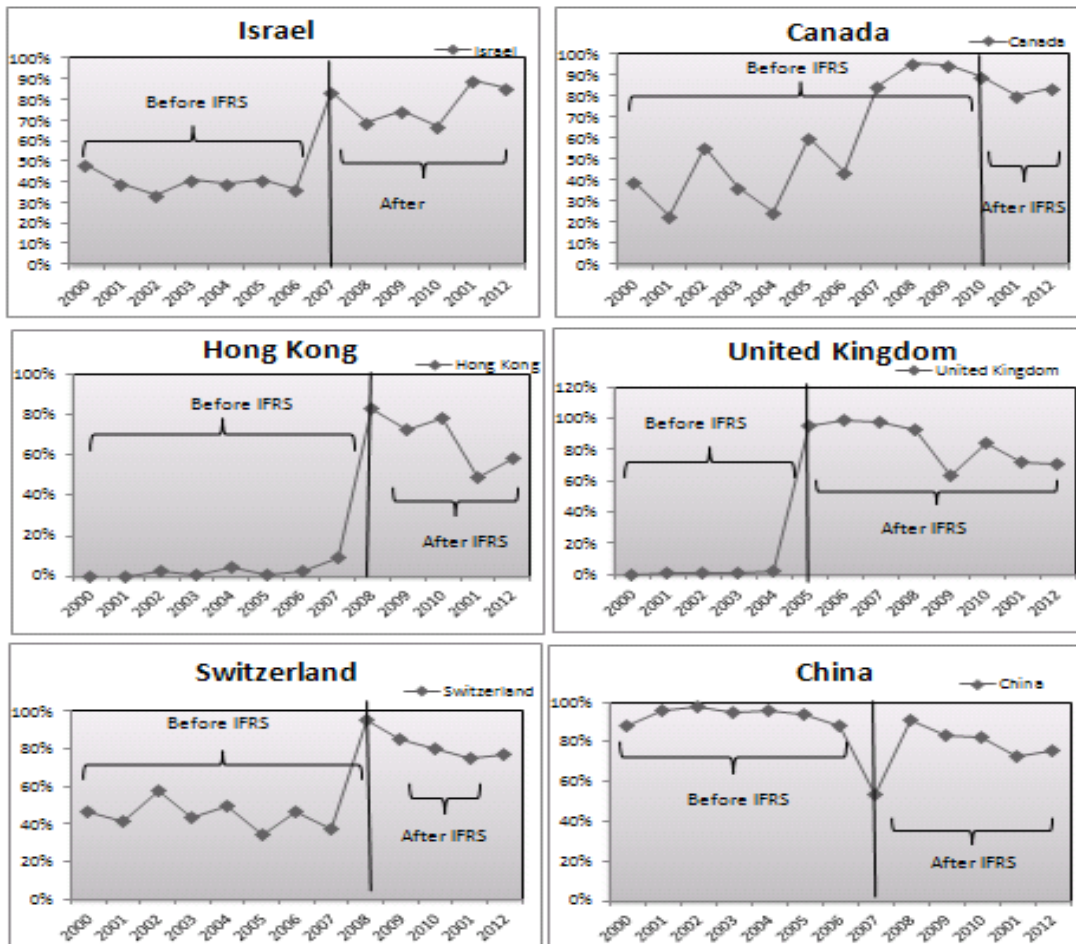


Figure 2. Evolution of R2 for the period before and after the implementation of IFRS

Table 6. Model results In Israel (Due process method– Compliant)

Country	Year	Constant			EPS			BVS			F	Sig. F	R2	D. W.
		B0	t	Sig.	B1	t	Sig.	B2	t	Sig.				
Israel	2000	-0,07	-0,03	0,9660	7,24	10,12	0,0000	1,47	1,32	0,1960	194,21	0,0000	48%	1,24
	2001	-0,51	-0,64	0,3260	14,13	14,15	0,0000	1,27	3,21	0,0020	145,24	0,0000	39%	1,83
	2002	-0,23	-0,84	0,2720	5,31	5,45	0,0000	1,84	3,97	0,0010	138,30	0,0000	34%	1,74
	2003	-2,56	-2,53	0,0630	14,22	6,08	0,0000	1,27	3,14	0,0050	148,27	0,0000	41%	1,84
	2004	-0,09	-0,05	0,9400	-2,01	-3,54	0,0029	2,05	4,84	0,0000	145,87	0,0000	39%	1,86
	2005	-1,34	-0,61	0,3830	-2,77	-1,10	0,1612	3,21	4,77	0,0000	38,36	0,0000	41%	1,24
	2006	-2,13	-2,56	0,0320	4,42	2,00	0,0009	1,47	3,95	0,0010	140,12	0,0000	36%	1,43
	2007	6,74	2,23	0,0290	6,06	2,86	0,0000	2,09	4,84	0,0000	1324,9	0,0000	84%	2,47
	2008	0,52	1,41	0,1940	2,25	2,83	0,0056	1,74	5,36	0,0000	412,42	0,0000	69%	2,31
	2009	3,14	1,12	0,0620	7,41	1,24	0,2789	3,88	7,98	0,0000	854,12	0,0000	74%	1,97
	2010	3,74	2,41	0,0950	1,64	0,54	0,5421	2,14	6,45	0,0000	309,08	0,0000	67%	1,64
	2011	2,41	1,12	0,0410	1,54	1,21	0,1347	1,24	6,48	0,0000	1621,9	0,0000	89%	2,07
	2012	0,27	0,21	0,3410	1,23	0,59	0,5140	2,24	10,43	0,0000	1420,0	0,0000	86%	2,01
	μ Before												39,71%	
	μ After												78,16%	

Table 7. Model results In Canada (As issued by the IASB method– Compliant)

Country	Year	Constant			EPS			BVS			F	Sig. F	R2	D. W.
		B0	t	Sig.	B1	t	Sig.	B2	t	Sig.				
Canada	2000	3,68	3,47	0,0001	-8,24	-5,78	0,0000	1,34	17,24	0,0000	145,21	0,0000	39%	2,00
	2001	4,51	5,21	0,0000	1,04	0,94	0,2450	0,34	4,89	0,0000	74,21	0,0000	23%	2,01
	2002	2,50	6,04	0,0000	-2,96	-4,44	0,0000	0,97	18,79	0,0000	303,72	0,0000	56%	1,98
	2003	3,95	3,43	0,0001	-7,96	-5,01	0,0000	1,78	14,18	0,0000	136,37	0,0000	37%	2,00
	2004	6,05	6,28	0,0000	1,01	0,95	0,3410	0,27	4,57	0,0000	76,80	0,0000	25%	2,02
	2005	4,80	5,89	0,0000	-1,77	-2,77	0,0060	1,30	13,07	0,0000	347,82	0,0000	60%	2,02
	2006	5,23	4,64	0,0000	-1,95	-1,39	0,1640	1,30	5,73	0,0000	184,63	0,0000	44%	2,01
	2007	4,90	11,76	0,0000	2,50	9,22	0,0000	0,57	18,94	0,0000	1326,80	0,0000	85%	1,87
	2008	0,97	6,02	0,0000	1,46	21,96	0,0000	0,74	77,48	0,0000	5399,75	0,0000	96%	2,11
	2009	2,29	10,50	0,0000	3,40	21,48	0,0000	0,68	67,83	0,0000	4275,89	0,0000	95%	1,67
	2010	4,12	10,42	0,0000	0,51	1,30	0,0910	0,80	28,58	0,0000	1828,41	0,0000	89%	1,64
	2011	3,15	6,66	0,0000	1,60	5,57	0,0000	0,69	41,01	0,0000	936,97	0,0000	80%	1,74
	2012	5,12	12,51	0,0000	0,64	1,41	0,2145	0,97	30,54	0,0000	1478,21	0,0000	84%	1,75
	μ Before												80,25%*	
	μ After												84,33%	

* The average before the IFRS implementation is based on the R2 of years 2006, 2007, 2008 and 2009 since the information available for the country in IFRS relates 3 years.

Table 8. Model results In Hong Kong (Full convergence method– Compliant)

Country	Year	Constant			EPS			BVS			F	Sig. F	R2	D. W.
		B0	t	Sig.	B1	t	Sig.	B2	t	Sig.				
Hong Kong	2000	-1,21	-0,04	0,9660	6,12	0,94	0,9560	1,64	3,45	0,0000	0,37	0,9620	0,20%	2,12
	2001	-1,32	-0,94	0,3560	12,21	0,84	0,9700	2,45	2,94	0,0000	0,44	0,9951	0,10%	1,97
	2002	-1,21	-0,73	0,4720	5,65	0,97	0,9701	2,89	1,95	0,000	9,41	0,3520	3%	1,84
	2003	-1,64	-2,04	0,0530	31,12	0,87	0,9641	2,46	3,12	0,0050	2,06	0,0645	1%	1,34
	2004	-1,24	-0,06	0,9500	-5,12	0,06	0,9993	2,31	15,88	0,0000	12,87	0,9412	4%	1,86
	2005	-1,32	-0,71	0,4830	-3,12	-1,38	0,1945	3,18	7,77	0,0000	2,36	0,0631	1%	1,54
	2006	-4,24	-2,24	0,0350	4,12	-2,27	0,0341	1,79	3,95	0,0010	9,12	0,3412	3%	1,63
	2007	-4,12	-2,28	0,0310	4,12	-2,28	0,0340	4,12	4,33	0,0000	24,90	0,1214	9%	1,48
	2008	1,65	1,36	0,1930	6,51	2,87	0,0090	2,74	3,41	0,0000	548,01	0,0000	83%	2,21
	2009	3,23	1,84	0,0780	3,21	2,76	0,0060	1,56	6,97	0,0000	406,12	0,0000	73%	2,01
	2010	-2,52	1,64	0,1160	2,31	2,93	0,0009	1,75	5,15	0,0000	468,10	0,0000	78%	2,07
	2011	3,24	2,12	0,0460	1,45	3,64	0,0000	2,13	10,27	0,0000	142,12	0,0000	49%	2,04
	2012	3,45	0,88	0,3860	2,24	4,57	0,0000	1,41	10,39	0,0000	208,45	0,0000	58%	2,34
	μ Before												2,66%	
μ After												68,2%		

Table 9. Model results In United Kingdom (IFRS with deletions method – Compliant)

Country	Year	Constant			EPS			BVS			F	Sig. F	R2	D. W.
		B0	t	Sig.	B1	t	Sig.	B2	t	Sig.				
United Kingdom	2000	3,68	0,47	0,9751	-8,24	-0,24	0,9541	1,34	0,24	0,9541	0,94	0,9610	0,20%	2,24
	2001	4,51	0,21	0,9845	1,04	0,65	0,9314	0,34	0,89	0,9314	1,21	0,9101	0,80%	2,13
	2002	2,50	1,04	0,9101	-2,96	-0,87	0,0000	0,97	0,79	0,9145	0,98	0,9420	0,30%	1,94
	2003	3,95	0,43	0,9845	-7,96	-0,78	0,0000	1,78	0,18	0,9984	1,37	0,9254	0,40%	2,02
	2004	6,05	0,28	0,9812	1,01	0,54	0,0000	0,27	0,57	0,9465	1,14	0,8650	1,70%	2,21
	2005	4,21	5,84	0,0000	-1,77	-2,77	0,0060	1,30	56,07	0,0000	5447,82	0,0000	92%	2,11
	2006	5,12	4,64	0,0000	-1,95	-1,39	0,1640	1,30	58,73	0,0000	5674,63	0,0000	94%	2,04
	2007	4,12	11,76	0,0000	2,50	9,22	0,0000	0,57	64,94	0,0000	5126,80	0,0000	91%	1,94
	2008	3,32	6,02	0,0000	1,46	21,96	0,0000	0,74	77,48	0,0000	5421,75	0,0000	92%	2,10
	2009	2,65	10,50	0,0000	3,40	24,48	0,0000	0,68	24,83	0,0000	517,89	0,0000	63%	1,97
	2010	4,87	10,42	0,0000	0,51	4,30	0,0000	0,80	46,58	0,0000	867,41	0,0000	84%	1,91
	2011	3,42	6,66	0,0000	1,60	5,57	0,0000	0,69	32,01	0,0000	496,97	0,0000	72%	1,92
	2012	5,35	12,51	0,0000	0,64	6,46	0,0000	0,97	29,54	0,0000	464,21	0,0000	70%	1,97
	μ Before												0,68%	
μ After												82,25%		

Table 10. Model results In Switzerland (optional method – Compliant)

Country	Year	Constant			EPS			BVS			F	Sig. F	R2	D. W.
		B0	t	Sig.	B1	t	Sig.	B2	t	Sig.				
Switzerland	2000	-1,78	-0,64	0,4124	8,17	9,19	0,0000	0,43	1,32	0,1960	282,01	0,0000	46%	2,85
	2001	-1,32	-0,41	0,5560	10,16	11,04	0,0000	1,05	3,42	0,0020	235,12	0,0000	41%	1,82
	2002	-1,12	-0,75	0,3640	8,39	4,39	0,0000	1,09	1,95	0,0630	458,40	0,0000	57%	1,63
	2003	-1,65	2,35	0,0354	16,38	5,00	0,0000	1,54	3,12	0,0050	246,86	0,0000	43%	1,30
	2004	-1,13	-0,71	0,3464	-3,07	-3,36	0,0030	2,75	15,88	0,0000	295,87	0,0000	49%	1,86
	2005	-3,21	-0,44	0,5230	-2,77	-1,40	0,1600	4,12	7,77	0,0000	175,36	0,0000	34%	1,03
	2006	-2,22	-2,98	0,0210	7,92	4,00	0,0010	2,82	3,95	0,0010	284,12	0,0000	46%	1,44
	2007	-2,12	-2,78	0,0950	6,06	2,84	0,0090	4,03	4,33	0,0000	183,90	0,0000	37%	2,26
	2008	2,21	1,23	0,1930	3,55	2,84	0,0090	1,79	3,49	0,0000	5040,6	0,0000	92%	2,32
	2009	1,53	1,45	0,0780	-7,24	-1,12	0,2710	4,88	6,19	0,0000	1851,9	0,0000	85%	1,72
	2010	1,12	1,98	0,1160	1,90	0,67	0,5060	2,73	5,19	0,0000	1351,1	0,0000	80%	1,91
	2011	2,64	1,74	0,0460	1,63	1,50	0,1440	2,18	10,87	0,0000	1013,9	0,0000	75%	2,24
	2012	1,41	0,97	0,3860	1,00	0,65	0,5210	2,01	10,43	0,0000	1492,0	0,0000	77%	2,64
	μ Before													44,1%
μ After													81,8	

Table 11. Model results In China (Not fully converged method – Not compliant)

Country	Year	Constant			EPS			BVS			F	Sig. F	R2	D. W.
		B0	t	Sig.	B1	t	Sig.	B2	t	Sig.				
China	2000	3,68	4,47	0,0000	-19,24	-5,78	0,0000	1,34	37,24	0,0000	2145,21	0,0000	88%	2,00
	2001	4,51	5,21	0,0000	10,04	6,94	0,0000	0,34	64,89	0,0000	5374,21	0,0000	92%	2,01
	2002	2,50	6,04	0,0000	-8,96	-4,44	0,0000	0,97	78,79	0,0000	5903,72	0,0000	94%	1,98
	2003	3,95	3,43	0,0001	-17,96	-5,01	0,0000	1,78	74,18	0,0000	5136,37	0,0000	91%	2,00
	2004	6,05	6,28	0,0000	1,01	4,95	0,0000	0,27	74,57	0,0000	5476,80	0,0000	93%	2,02
	2005	4,80	5,89	0,0000	-1,77	-5,77	0,0000	1,30	23,07	0,0000	5347,82	0,0000	92%	2,02
	2006	5,23	4,64	0,0000	-1,95	-4,39	0,0000	1,30	35,73	0,0000	1784,63	0,0000	81%	2,01
	2007	4,90	11,76	0,0000	2,50	9,22	0,0000	0,57	18,94	0,0000	278,80	0,0000	53%	1,87
	2008	0,97	6,02	0,0000	1,46	21,96	0,0000	0,74	77,48	0,0000	5399,75	0,0000	91%	2,11
	2009	2,29	10,50	0,0000	3,40	21,48	0,0000	0,68	42,83	0,0000	4275,89	0,0000	83%	1,67
	2010	4,12	10,42	0,0000	0,51	1,30	0,0910	0,80	38,58	0,0000	1768,41	0,0000	82%	1,64
	2011	3,15	6,66	0,0000	1,60	5,57	0,0000	0,69	21,01	0,0000	507,97	0,0000	73%	1,74
	2012	5,12	12,51	0,0000	0,64	1,41	0,2145	0,97	26,54	0,0000	530,21	0,0000	76%	1,75
	μ Before													90,28%
μ After													76,33%	

6. Summary and Discussion

The Relevance is an essential characteristic of accounting information. Several researchers have studied this qualitative characteristic for the determination of the effect of an accounting referential on the quality of the accounting information. In terms of standards concerned by these studies, the IFRS have been widely studied. Thus, to accomplish this objective, several models have been developed. The comparison of results of these models shows a better explanatory power of model of Ohlson (1995) and a large difference in the results from one country to another. This difference in results may be caused by several factors. The study of Zeff and Nobes (2010) on the methods of implementation of IFRS has conducted us to think that the compliance of methods of implementation of IFRS with the IFRS issued by the IASB influences the relevance of accounting information. Thus, through this study we have tried to investigate the effect of the compliance of methods of implementation of IFRS on the relevance of accounting information.

We have used the Ohlson model to study this effect. Also, we have used the classification made by Zeff and Nobes (2010). According these authors, the implementation of IFRS for the listed companies around the world can be decomposed according to its degree of implementation and compliance with IFRS issued by the IASB into four methods of implementation: the first method is the “*due process*” which is the most advanced degree of implementation; the second method is the “*standard by standard*” implementation; it includes three levels named “*adoption of the publications of the IASB*”, “*full IFRS convergence*” and “*IFRS adoption and deletions*”. The third implementation method is the “*optional*” adoption and the last method is the “*incomplete convergence*”.

Subsequently, two models have been used. The first model aims to study the effect of the compliance of methods of implementation on the relevance of accounting information and the second model is proposed to compare the relevance between the countries of the sample adopting different methods of implementation of IFRS. The period chosen is of 3 years (2010-2013) for the first model and of 13 years (2000-2012) for the second model. The number of countries is six. These countries have implemented the IFRS by various methods of implementation.

The results show a significant effect of the compliance of the method of implementation of IFRS on the relevance of the accounting information. This effect is positive which demonstrates that the compliance is positively correlated with the relevance. Also, the results demonstrate an improvement of the relevance in countries as Israel which has opted for a “*due process*” method, Honk Kong which has selected a “*complete convergence*” method, the United Kingdom which has adopted the method “*IFRS with deletions*” and Switzerland which has selected an “*optional*” method for the implementation of IFRS. In Canada a country which has opted for a method of implementation “*IFRS as issued by the IASB*”, the results demonstrate a maintain of the high relevance of accounting information for the period after the transition to IFRS. In china, a decline of the relevance of accounting information is observed following the adoption of the new Chinese accounting standards which are fairly close but not fully compliant with the IFRS.

These results confirm those of some studies on the relevance of accounting information which demonstrate an improvement of the relevance following the adoption of IFRS such as the studies of Bartov et al. (2005) and of Morais and Curto (2009). The first authors have reported a greater relevance of U.S. GAAP and IAS compared to German standards. The second have noticed through a sample of companies listed in 14 European countries that the relevance of the value of financial statements of these countries had increased following their transition to IFRS.

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