# Fair Value Accounting and Financial Institutions: Lessons Learned from the Recent Global Financial Cris

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#### **ABSTRACT**

Fair value accounting is alleged to have exacerbated, or even or included to, the recent global financial crisis through its procyclical effects. This paper discusses fair value accounting critics' views and those of advocators for fair value accounting and debates whether historical out accounting is a better alternative to fair value accounting during a crisis. To conclude, fair value accounting did not play a major role in contributing to the financial crisis. Rather, the business models of financial institutions and their short-term incentives likely contributed to the crisis. Although the relaxation of coording rules in times of the financial crisis implies that fair value accounting may have caused downward spirals or forced sales, historical cost accounting would not be an optimal solution, as it would not paid transparency of accounting information and therefore undermine investors' confidence. An important suggestion is that in the case of a future crisis, regulatory agencies should not relax regulatory capital ratios to prevent moral hazard while standard setters should revise the deviation clause in the fair accounting rule to facilitate a departure from prices in illiquid markets.

Keywords: Fair Value, Financia cris, Regulatory Capital, Banking Sector

# การบัญชีมูลค่ายุติธรรมและสถาบันการเงิน: บทเรียนจากวิกฤตการณ์ทางการเงินของโลกครั้งที่ผ่านม

### นิภัทร์ พวงจำปา

อาจารย์ประจำภาควิชาการบัญชี คณะพาณิชยศาสตร์และการบัญชี มหาวิทยาลัยธรรมศาสตร์

#### บทคัดย่อ

การบัญชีมูลค่ายุติธรรมได้รับการกล่าวหาว่า ผลกระทบตามวัฏจัการ รษฐกิจของการบัญชีมูลค่ายุติธรรมได้ทำให้ วิกฤตการณ์ทางการเงินของโลกครั้งที่ผ่านมาเลวร้ายลงหรือแม้กระทั่งกัรับการกล่าวหาว่าก่อให้เกิดวิกฤตการณ์ทางการ เงินดังกล่าว บทความฉบับนี้อภิปรายแนวคิดของผู้ที่ไม่เห็นด้วยกับ กัญชีมูลค่ายุติธรรม และผู้สนับสนุนการบัญชี มูลค่ายุติธรรม ทั้งยังอภิปรายว่าการบัญชีราคาทุนเป็นทางเลือกที่ดีกว่า กรบัญชีมูลค่ายุติธรรมหรือไม่ในยามที่วิกฤตการณ์ ทางการเงินได้เกิดชื้น ข้อสรุปคือ การบัญชีมูลค่ายุติธรรมมีได้มาทบาทสำคัญในการก่อให้เกิดวิกฤตการณ์ทางการเงิน แต่รูปแบบการดำเนินธุรกิจและแรงจูงใจระยะสั้นของสถาบันการเงินต่างหากที่มีแนวโห้มว่าน่าจะก่อให้เกิดวิกฤตการณ์ ทางการเงินในครั้งที่ผ่านมา แม้ว่าการผ่อนปรนมาตรฐานการบัญชีในยามที่เกิดวิกฤตการณ์ทางการเงินอาจสื่อเป็นนัยว่า การบัญชีมูลค่ายุติธรรมทำให้เกิดสถานการณ์ การบัญชี เพาการบัญชีในยามที่เกิดวิกฤตการณ์ทางการเงินอาจสื่อเป็นนัยว่า การบัญชีมูลค่ายุติธรรมทำให้เกิดสถานการณ์ การบัญชี คาทุนก็มีใช้ทางแก้ที่ดีที่สุด เพราะการบัญชีราคาทุนจะทำลายความโปร่งใสของข้อมูลทางการบัญชีและทำลายความชื่อมั่นของนักลงทุน ข้อเสนอแนะที่สำคัญประการหนึ่ง คือหน่วยงาน กำกับดูแลไม่ควรผ่อนปรนอัตราส่วนใช้ หัวทารบังตัญประสงค์ในการกำกับดูแล เพื่อกันไม่ให้เกิดจริยวิบัติ ในขณะที่ หน่วยงานกำหนดมาตรฐานกว่าขับดีติรรรมเป็น เพื่อให้การบังตีขึ้น เพื่อให้การไม่ใช้ราคาในตลาดที่ขาดสภาพคล่องในการกำหนดมูลค่ายุติธรรมเป็น ไปได้ในทางปฏิบัติ

**คำสำคัญ:** มูลค่ายุรรร วิกฤตการณ์ทางการเงิน อัตราส่วนเงินทุนเพื่อวัตถุประสงค์ในการกำกับดูแล ภาคการธนาคาร

#### Introduction

Afraid of the collapse of the entire financial system, many politicians, economists, businessmen and columnists demanded that the standard setters put an end to fair value accounting before its arguably deleterious impacts would become uncontrollable. One of them was French President Nicolas Sarkozy, who asked the International Accounting Standard Board (IASB) to suspend fair value accounting in IAS (International Accounting Standard) 39, because he believed that this accounting regime was sabotaging the stability of European banks. Critics of fair value accounting proposed historical cost accounting (HCA) as a remedy for fair value accounting. This phenomenon appears to be impossible, but, believe it or not, it happened in the period of the global financial crisis between 2007 and 2008.

In times of a financial crisis, fair value accounting (FVA) can pose formidable challenges to financial institutions whose financial assets and liabilities are required to be reported at a value. During the recent financial crisis commencing in 2007, financial institutions on which Tier 1 capital was imposed encounted downward spirals claimed to be caused by FVA. Once a dramatic shock had hit the beconomy, illiquid financial markets we common where investors' confidence and williams is and financial ability to trade plummeter. In maintaining the Tier 1 capital requirement, the financial institutions were there we forced to continuously sell financial as at heavily discounted prices. This

circumstance could have contributed, at vost to systemic risk when the forced sale prices was relevant to other financial institutions. Such entrelevant to other contrects including Europe. Under the FVA sposified in IAS 39 and U.S. GAAP (Generally Accepted Accounting Principles), the statement of a cial position of the U.S. and European a cial institutions contracted significantly while heir statements of income reported a unprecedentedly large amount of lossess as the accounting standards required that fair value be derived from market prices.

Together was standard setters and regulatory bodies, som prominent researchers however adverted the application of FVA, claiming that only FVA could provide transparency for parket participants in a financial crisis in which transparency is most needed. Laux and Leuz 2010) state that the arguably adverse effects of FVA must be considered against the advantages of timely recognition of loss that could lead to prompt corrective measures. Similarly, Barth and Landsman (2010) suggest that value relevance be seriously taken into account whenever a trade-off between HCA based on reliability and FVA based on relevance is under debate. They conclude that FVA was not a major culprit of the crisis but the most appropriate reporting system available in times of the crisis. Instead, the effects of loan loss provisioning based on the incurred loss model have been responsible for the origination of the financial crisis (Barth and Landsman, 2010).

This article will contrast FVA proponents' views with those of FVA opponents in the context of the subprime crisis between 2007 and 2008, as well as presenting the author's view and suggestion.

#### Surge of the Financial Crisis

At the outset of the financial crisis in 2007 was the U.S. housing market where government policy, lax standards of lending and financial innovation encouraged excess subprime mortgage lending in an economic upturn. The world witnessed the crisis rapidly plaguing credit markets, financial markets, and eventually the real economy from the United States to other nations. Even well-established financial institutions failed to weather the storm—some filed for bankruptcy while others were bailed out by the Federal Deposit Insurance Corporation. As a result, the risk management practices of financial institutions have been widely criticized and alleged to contribute to this financial crisis.

Over the past two decades, the U.S. government had been supporting low and middle income families' home ownership, causing regulation over mortgage lends to be lenient. The relaxation of lending standards made it possible for numerous households previously deemed to be unqualified for mortgages to afford houses. Demand for howing frew accordingly, and so did prices. Mortgage lenders were pleased with this lucrative mustation, as the lending was well covered to real estate whose prices were on the rise. The ant loss would not result were the boomer's to default.

Complicating the circumstance, security a jon established a principal mechanism to emove the mortgage lenders who were in other of higher profits and accelerate the bouring bubble. Generally, securitization enables financial institutions to obtain cash from alling portfolios of mortgages to specia puede entities (SPEs) which offer structured pocts for investors. Financial engineers is a ecurity backed by a pooling of the petgages whose cash flows are separate into the hes. The riskiest tranche (such as equity transle) means the highest rate of return whereas e least risky tranche rated AAA (such as serior tranche) is commensurate with the prate of return. The security is named an's ser backed security' (ABS) or, to be specific, 'mortgage-backed security' (MBS). Making more money, creative financial engineers created an ABS From tranches of MBSs dynamically and sold them to investors, including hedge funds, prior to the crisis. In short, securitization had two important implications in the housing boom: it allowed for excess lending and for the reduction of capital requirements (Acharya and Richardson, 2009).

Not only were ABSs central to the financial crisis, but credit default swaps (CDS) played a key role in the credit turmoil. Put simply, CDS is a financial instrument that insures against default risk. Once a default occurs, a CDS writer agrees to purchase for the face value the bonds on which a CDS holder buys the insurance. Before the crisis, an enormous number of CDSs were purchased for protecting against the defaults of ABSs that hedge funds and investment banks held. At that time, AIG

sold naked CDSs—CDSs written without holding another counterparty's CDSs for self-protection—to insure \$440 billion bonds, most of them relating to debts issued by Lehman Brothers (Barth and Landsman, 2010). It can be simply presumed that AIG did not expect Lehman Brothers to default or that AIG mispriced the risks of ABSs.

Good times could not last forever, and the bubble finally burst in the housing market later in 2007. Increasing house prices in the prior periods reduced demand for houses continually. Some borrowers were speculators who decided not to honor the mortgages as the prospects of the real estate industry seemed dull while others were owners who could no longer pay off their mortgages due to their economic constraints. As time elapsed, this circumstance led to more foreclosures and the rising number of houses for sale, severely depressing the house prices. Bad news about the housing market continued to arise, and its unfavorable impacts became wide pread

The subprime crisis in the housing mannet spread rampantly to the financial markets, the credit markets and the real sectors across the world. In the summer of 200 the financial markets experienced substantial disruptions, particularly the failure of the about backed security market. At the culmination of the crisis in 2008, Lehman Brothers defaults which had securitized many of its mortgage loans and reported record net income. Not well aware of the credit event,

AIG failed to fulfill its obligations of the CI wrote. However, the U.S. government chose to low out AIG to prevent systemic risk, a circumstane in which the entire financial system con page In times of the crisis, uncertainty about the economic future was looming on the norizon, investors' confidence dissipated we to lack of transparency, and so the financial markets became illiquid. Because of the massive losses on their assets and limited avail ility of funds, banks cut lending to companies in sement contracted while unemployment rose. To whole country suffered a major economic ecession which later hit the rest of the work in response, the Federal Reserve adopted prentional monetary policy, called "Quantitative Easing (QE)." This expansionary metary program was designed to add liquidity nd cut interest rates with the aim of stimulating th@domestic economy which, in turn, would affect The global economy.

Fair value accounting has been blamed for exacerbating the global financial crisis or even contributing to the crisis. At this point, the reader may have several questions, e.g., what FVA is, what role FVA played in the financial crisis, what an alternative to FVA is, and whether FVA contributed to the crisis. The following sections will present arguments from relevant literature to answer these questions. Figure 1 shows important events in times of an economic upturn. Figure 2 illustrates important events during an economic downturn.

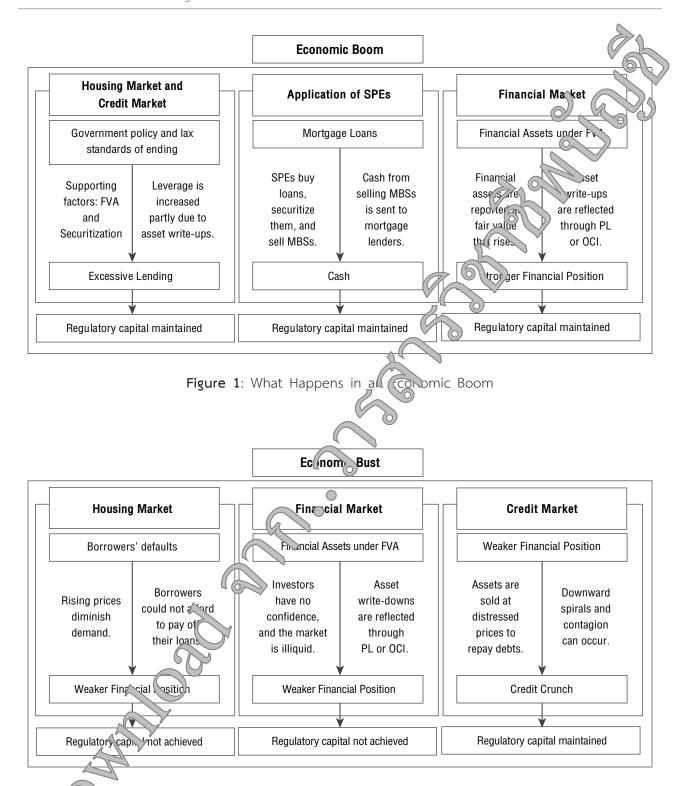


Figure 2: What Happens in an Economic Bust

#### Fair Value Accounting and Financial Institutions

In its pure form, fair value accounting (FVA) requires that assets and liabilities be measured at fair value derived ideally from market prices and that differences between the carrying amounts and fair values be recognized through profit or loss (Laux and Leuz, 2010). IAS 39 also permits this fair value option. When market prices represent fair value, fair value accounting is simply named "mark-to-market accounting". However, the fair value option is not extensively used. Instead, types of financial assets and liabilities determine whether the amounts of difference between the carrying amounts and fair values of financial assets and liabilities are reported on the statement of income or through other comprehensive income (OCI) whereas most derivatives are measured at fair value through profit or loss.

Fair value is defined as "the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between park to participants at the measurement date" muts or fair value are in the following order. I inputs are quoted prices in the active markets for dentical assets and liabilities. Level 2 inputs are observable inputs other than those in Level 1 inputs. Level 3 inputs are unobservable oputs. Before the crisis, financial institution must commonly used models with Level 2 by vable inputs, followed by Level 1 and 2 in uts respectively (Laux and Leuz, 2010). Durns the crisis, the significance of Level 1 inputs mancial models increased sharply

(Laux and Leuz, 2010). Nonetheless, forced sale prices are not considered to be fair value

According to Laux and Leuz (2010), case of bank holding companies, % there balance sheets, most of which were pailable-forsale securities, were reported at fa. value. With the mark-to-market mode show in the value of available-for-sale securities charged to OCI unless the securities are a social of. Half of the balance sheets were less and held-to-maturity securities whose Pair value vere disclosed although they were, in fact, mosured at amortized costs or modified horrow costs. On the other hand, investment ban's largely carried collateralized agreem no d repo agreements whose amounts were resorted at historical costs close to fair value. Cy, a "mixed-attribute" model has a crucial art to play in accounting treatments for financial in Quments (Laux and Leuz, 2009).

# Critical Roles of Fair Value Accounting in the Global Financial Crisis

Fair value accounting is claimed to have contributed to the financial crisis through its procyclicality in an economic upturn. Before the crisis, when the market prices of assets rose, FVA ensured that the balance sheets reflected asset write-ups, leading to the stronger financial position of financial institutions. Intuitively, financial institutions increased leverage through more lending and securitization without violating Tier 1 capital, resulting in constant growth in their balance sheets. This process continued throughout

the economic boom. Plantin, Sapra and Shin (2008a) note that price changes comprise volatility that reflects fundamentals and artificial volatility. The latter is detrimental especially if short-term incentives and market frictions influence market participants to amplify the upward movement of asset prices. Thus, recognizing volatility that is not justified by fundamentals in financial statements can create an endogenous source of volatility that results solely from FVA (Plantin, Sapra and Shin, 2008a). Even though little evidence suggests that FVA contributed to excess lending, excess securitization and finally the financial crisis, no one could deny the possibility that artificial volatility of asset prices accounted for under FVA prior to the crisis rendered the financial systems more vulnerable.

In addition, fair value accounting is believed to have exacerbated the financial crisis through its procyclicality in an economic downturn. During the crisis in the second half of 2008, when the narket prices of assets were in free fall, asset ite-lowns were recorded in accordance win EVA, to the weaker financial position of financial institutions. To maintain Tie capital, financial institutions were forced to their assets at amounts that were well below fundamental prices, in order to reduce risk ssets and repay short-term debts used to firme, their ABS holdings (Barth and Landsman 210; Shleifer and Vishny, 2011). Once this active continued and further depressed the asset ices, there may have been downward spirats set-fire sales. Contagious effects may na er sued when these fire-sale prices had

become prevalent in the financial marker, and other financial institutions measured their fir a lial assets at the fire-sale prices considered to be fair value. It is possible that FVA implementation of the crisis would make the financial crisis more severe if volatility from the down, and movements of asset prices were articial. Catalog by Plantin, Sapra and Shin (2008ay.

However, FVA sporters argue that fair value accounting a ved vital positive roles in the financial risis he red at fair value, financial assets and Habilious reflect current market conditions, proving accounting information that is relevant investors' equity valuation (Barth and Jaman, 2010; Laux and Leuz, 2009). After the risis unfolded, the decline in the value of Spancial assets not only reflected the degree of illiquidity in the financial markets and of investors' articipation but also sent an early warning signal that a predicament was imminent. In response, regulatory bodies, in fact, could have implemented corrective actions promptly to prevent any spillover effect. Interestingly, when the credit worthiness of financial institutions is lower, gains on fair valuing own liabilities are allowed to be recognized through profit or loss under IAS 39. The gains can assist financial institutions in alleviating the magnitude of losses from fair valuing assets. However, in times of the crisis, regulators applied prudential filters to remove these gains before computing the Tier 1 capital, making the attainment of financial institutions' capital ratio difficult without selling their own assets (Barth and Landsman, 2010). Furthermore, uncertainty during the crisis undermined investors' confidence. Hence, transparency of accounting information provided by FVA is absolutely essential for enhancing investors' confidence in the course of the crisis. Likewise, Tweedie (2008) concludes that the crisis is a crisis of confidence that can be resolved by increased transparency. Transparency improved through additional disclosure will boost market participants' confidence in the credit markets.

In sum, despite the distinct advantages of FVA, artificial upward volatility arising from FVA during an economic boom weakened the stability of the banking sector and increased the likelihood of the sector's failure in times of an economic depression. In addition, artificial downward volatility arising from FVA during an economic bust could lead to forced sales, where financial institutions sold their assets at distressed prices to repay debts and maintain the capital requirements. Therefore, excessive credit expansion contributing to the financial crisis could occur unless fair value we equal to fundamental value. As it may be remat the two values are equal, a group andividuals strongly suggests that historical cost accounting be used in place of fair value counting during a crisis.

# Historical Cost Accounting: Alternative to Fair Value Accounting

Historical cost accounting (HCA) is claimed to be an accounting natment that is arguably better than fair value accounting in times of a financial crisis. Easy HCA, financial assets and liabilities are called a mortized cost, or modified historical

cost. Uncertainty, irrationality and a dear of confidence caused a liquidity crunch when the financial crisis arose. Consequently, current mark prices not determined in an order transction may have incorporated artificial vestiling that was not justified by fundamentals Vantin, Sapra and Shin (2008b) develop and Shin (2008b) develop of these two accounting verse and argue that HCA omits price signal vile VA include an speculative element in rice changes. Since the speculative component vider FVA undermines the informational conent of current prices, HCA appears to be more appropriate than FVA for measuring the alue of long-term assets in an illiquid man that are exposed to a downside risk. They to suggest that financial institutions and ecomic growth can be harmed by a precipitate hift to a full FVA regime although this accounting re@ne is desirable in the long run.

the stability of financial institutions. Financial institutions that use HCA are believed not to be affected by the decline of the market prices in times of a crisis, when market prices do not seem to reflect true fundamental values and future earnings power. By contrast, historical cost better represents true value. In this case, banks would not experience difficulty maintaining Tier 1 capital, prescribed by bank regulators. They would not be forced to sell their own assets; therefore, fire sales or downward spirals and contagion would not follow, and financial systems would never collapse. Is it true that assets valued in accordance with HCA are not subject to write-downs?

It is clear that the arguments above illustrate several fallacies. First and foremost, assets measured in accordance with HCA is still subject to impairment tests. In the case of an asset impairment, an impairment loss must be recognized through profit or loss. Although some may argue that impairment accounting relies on much of management discretion, independent auditors invariably assume responsibility to verify those management assumptions. Thus, it can be reasonably assured that the outcome based on HCA would not differ significantly from that based on FVA. Another drawback is that under HCA, impairment losses would not be partially neutralized by gains from fair valuing financial liabilities, possibly worsening banks' accounting performance.

At the forefront of the debate is a trade-off between relevance and reliability of accounting information. Barth and Landsman (2010) suggest tha value relevance is the answer to the contentious debate between FVA and HCA. Unlike HCA, FVA provides value relevance, in that fair value is relevant to equity valuation and revalve to reflect in stock prices (Barth and Lan man, 2010). Even in times of a crisis, sophisticate in estors will never use accounting numbers based purely on historical costs to value equity ctork, as these accounting numbers reflect recesive conservatism. Because of its prudence and limited timeliness, HCA also does not play he role of a warning messenger. If correct action had not been taken in due consequence of the crisis could have be a worse. According to Tweedie (2008), this crisis

is a crisis of confidence, in which confidence as be regained by providing investors with transpaler cy. HCA would have destroyed transparence that EVA could provide, more likely triggeng could boosting confidence.

The practice of increased verage can be eliminated under none of two accounting regimes. HCA provides formal institutions with considerable latitude or cresse leverage through "gains trading". Upder HCA, banks choose when to report valuation wins by selling winners or securities with readable gains—while retaining losers or scurces with realizable losses—and repurch(sing the winners, at which point banks start levelging aggressively through lending and s critization. In such a case, regulators cannot nticipate when aggressive leverage will occur. Before regulators understand this financial activity Choroughly, its consequence may be too chaotic to be handled by conventional policy. On the contrary, FVA tends to restrain banks from choosing when to recognize valuation gains. In this sense, regulators can monitor when banks raise leverage and thus take preventive measures in a timely manner to curb excessive leverage.

Even during a financial crisis, most of the literature (e.g., Barth and Landsman (2010), Laux and Leuz (2009, 2010) and Tweedie (2008)) argues against the application of HCA, since it does not provide value relevance and transparency, but it allows financial institutions to increase leverage through "gains trading". Under the HCA regime, regulators are bound to neglect a warning about an upcoming financial crisis. However, prices observed

at the market in a crisis may not represent fair value appropriately in accordance with the definition of fair value accounting, so a departure from observable inputs may be considered.

#### **Exception to Fair Value Accounting**

Accounting standards permit deviation from using quoted market prices in determining fair value. U.S. GAAP and IFRSs (International Financial Reporting Standards) are practically identical in terms of fair value measurement. According to both of the accounting standards, deviation from quoted market prices (Level 1 inputs) and observable inputs (Level 2 inputs) are allowed if the markets are heavily distorted. However, illiquidity is not a valid reason for the deviation. For example, when there is an asset fire sale, or a forced sale, in an economic distress, the fire sale prices do not reflect future earnings power of the assets and are significantly lower than fundamental value. In this case, unobservable inputs (Level 3 inputs) are permitted. In reality, the downtion is nearly impossible in practice, except standard setters grant deviation in a special case.

Standard setters make de lation from fair value accounting nearly importicable even though it is permitted in rertain unusual situations, such as a recel sale. A liquidity crunch normally precedes a recel sale. Therefore, until the situation in ets the criteria of a forced sale, the value or banks' financial assets may be decreased to the amount that is significantly below run a lental value, e.g., close to zero. In this exe, lanks may have no strong incentive

to deviate from fair value accounting, a circumstance is already severe.

Moreover, litigation concerns may discervas financial institutions from using Oobse vable inputs. Leuz and Laux (2009) note that it is bylikely that managers will deviate from barket prices. During the recent crisis, cotrate and regulation were tied to fair value and the accounting. With short-term incentives managers might be cautious about negative market reactions that may have occurred a or by if a departure from observable inputs had been present. The first reason is that wan contracts with counterparties were associate with fair value derived from market prices Second, market prices were closely related to risk management within financial ipotutions, such as Value at Risk (VaR). Third, regulators used market prices to indicate expected fu@re performance of financial institutions for The purpose of calculating capital requirements; thus, when future losses were expected, required capital had to be adjusted regardless of when losses were realized (Leuz and Laux, 2009). Hence, deviation from market prices could have meant breaching important clauses in the contracts or rules stipulated by regulatory bodies and led to lawsuits between companies in the contracts or between financial institutions and regulators.

To summarize, although deviation from market prices is permitted under unusual situations, it is feasibly difficult because of litigation problems that may arise. For this reason, standard setters decided to relax the accounting rules to solve the implementation problem.

## Consequences of the Financial Crisis for Accounting Standards

Standard setters, including IASB (International Accounting Standards Board) and FASB (Financial Accounting Standards Board), encountered mounting political pressure throughout the course of the financial crisis. Consequently, FASB relaxed the reclassification of financial assets in 2008 and allowed for the practical use of unobservable inputs (Level 3 inputs) with financial models in 2009. U.S. SEC (Securities and Exchange Commission) and FASB also relaxed the existing measurement of fair value.

Like FASB, IASB issued amendments to IAS 39 & IFRS 7 "Reclassification of Financial Assets" without due process in October 2008. Applicable only to non-derivative financial assets, the amendments permit a reclassification from "held for trading" securities, reported at fair value to profit or loss, to "available for sale" securities, reported at fair value to OCI or reld to maturity" securities, measured at motized cost. They also permit a reclassification from "held for trading" securities, reported a fair value to profit or loss, and "available or sale" securities, reported at fair value to "loans and receivables," measured at prortized cost. In sum, these amendments a low for the reclassification of non-derivative fina cial assets from the fair value accounting regime to the historical cost accounting reyme.

After ese rulings came into effect, financial instrumtion apparently managed to significantly feetice the amount of losses from asset write-

downs, making their financial statements of ear to be better in the short run.

### What Most Likely Caused the Finncial Crisis

I would argue that the business hadels of financial institutions, not fair volue accounting, were most likely to have an en inancial crisis. Shaffer (2010) finds that empairment loss of loans based on the incomed loss model accounted, on average, for 15.7 ercent of the depletion of Tier 1 capital at the old of 2008 whereas the loss from fair value 1) counting represented merely 2.09 percent of average. This finding appears to indicate hat financial institutions' business modeland short-term incentives were prone the caused the financial crisis, because lax ending standards, excess lending, securitization, market value bank management, collateralization greements, and financing asset-backed securities with collateralized short-term liabilities resulted from banks' business strategy prior to the crisis.

To substantiate the minimal effects of fair value accounting on the financial crisis, regulators reportedly applied prudential filters to eliminate some gains and losses originating from fair value accounting—particularly unrealized losses from available-for-sale securities and gains from fair valuing banks' own liabilities when their credit risk increased—for the purpose of capital computation. Barth and Landsman (2010) argue that excluding gains on fair valuing banks' own debts magnified the severity of procyclicality in the crisis. Therefore, bank regulators themselves may have destroyed banks' capital requirements

without realizing the outcome of what they were doing. In short, it can be argued that fair value accounting had limited impacts on the capital of banks while loan loss provisioning that proves to have played a direct role in decreasing banks' capital may have contributed to the financial crisis.

During the crisis, information asymmetry played a key role in undermining confidence among market participants and exacerbating the circumstance, as well illustrated by the collapse of the asset-backed securities market and the cases of AIG and Lehman Brothers. Some claim that fair value accounting and accounting disclosure mitigated the problem of information asymmetry in times of the crisis by providing transparency to market participants (for example, Tweedie (2008) and Barth and Landsman (2010)). However, what standard setters did to relax the relevant reporting requirements during the crisis necessitated the public questioning the benefits of fair value accounting and its limited impacts on the clisis, claimed by standard setters. Behind the snord setters' decision possibly lies the fact that they acknowledged that this accounting practice amplified the severity of the cr

#### **Concluding Remarks**

To begin with, I proso all agree with IASB and FASB, which finally release the fair value accounting rule. The standard sectors may have realized that transparency of accounting information could not be viewed as separate from the stability of the barn in astry. Reduced transparency due

to the relaxation of fair value accounting would not outweigh the strengthened stability of banking sector. In addition, in times of a liquid crunch, fair value from Level 1 inputs in the fair value; thus, a deviation from Level 1 nputs appears to be justified. In contract Barth and Landsman (2010) suggest the fall le accounting should not be relaxed with crisis, because standard setters' main poctive is to enhance transparency of account information, rather than to maintain the stabuty of the banking industry. That said, I propose oquestion that needs to be answered: Shold standard setters include the stability of nancial institutions in their main objective?" andard setters' vehement support of transacremitry of accounting information in times of financial crisis could do nothing but force ancial institutions to revalue their financial as to the value so low that they would have  $\mathbb{Q}_{\!\mathsf{O}}$  initiate fire sales with the aim of maintaining regulatory capital. In response, I would suggest that standard setters make it practically possible to depart from Level 1 inputs when there is an unusual liquidity shortage.

I also agree with bank regulators that decided not to relax capital requirements. Regulators should uphold the capital ratios to show inefficient financial institutions to the public. Inefficient banks should exit the industry unless governments bail them out. This shows that regulators treated everyone on the level playing field equally. Barth and Landsman (2010) do not have the same opinion about regulators, but I believe that

their suggestion that regulators relax the capital requirements would discourage bank managers from changing the business models. Subsequently, this would put the whole banking industry in serious danger, as experienced in the recent crisis.

My epilogue is that if bank managers with a long-term view were to take into account both all stakeholders' interests and banks' profit numbers, banks' business models would not be what they are today. For example, banks would tighten their standards of lending and provide home owners with the majority of the mortgage loans. Meanwhile, speculators would obtain only a small fraction of mortgage loans. Furthermore, information asymmetry should be mitigated by improved disclosure about structured products and derivatives, so that risk management policies can be implemented. Effective risk management procedures will help alleviate exposure that may trigger the failure of a financial institution.

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