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Asymmetric benchmarking in bank credit rating

Chung-Hua Shen^{a,1}, Yu-Li Huang^{b,*}, Iftekhar Hasan^{c,2}

^a Department of Finance, National Taiwan University, No. 1, Sec. 4, Roosevelt Rd., Taipei City 106, Taiwan, ROC

^b Department of Insurance and Financial Management, Takming University of Science and Technology, No. 56, Sec. 1, Huanshan Rd., Neihu District, Taipei City 11451, Taiwan, ROC

^c Rensselaer Polytechnic Institute, Bank of Finland, 110 8th Street, Troy, NY 12180, United States

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ABSTRACT

This study proposes an information asymmetry hypothesis to examine why bank credit ratings vary among countries even when bank financial ratios remain constant. Countries are divided among those with low and high information asymmetry. The former include high-income countries, those in North America and West Europe regions, and those with strong institutional environment quality, whereas the latter group possess the opposite characteristics. This study hypothesizes that the influences of financial ratios on ratings are enhanced in low information asymmetry countries but reduced in countries with high information asymmetry. The sample includes the long-term credit ratings issued by Standard and Poor's from 86 countries during 2002–2008. The estimated results show that the effects of financial ratios on ratings are significantly affected by information asymmetries. Countries wishing to improve the credit ratings of their banks thus should reduce information asymmetry.

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1. Introduction

The study of how credit ratings are determined has attracted considerable attention recently. Early investigations of this area typically used financial ratios to explain and predict ratings and their

* Corresponding author. Tel.: +886 2 2658 5801; fax: +886 2 2799 1368.

E-mail addresses: chshen01@ntu.edu.tw (C.-H. Shen), 93352508@nccu.edu.tw (Y.-L. Huang), hasan@rpi.edu (I. Hasan).

¹ Tel.: +886 2 3366 1087; fax: +886 2 8369 5817.

² Tel.: +1 518 276 2525; fax: +1 518 276 8661.

changes.³ Recent works have identified two plausible “credit rating inconsistencies”. First, the same firm sometimes receives different ratings when rated by different rating agencies (Ederington, 1985; Beattie and Searle, 1992; Moon and Stotsky, 1993; Cantor and Packer, 1994). This is considered an inconsistency because given full information disclosure the same firm should receive roughly equivalent ratings regardless of rating agency.⁴ The second inconsistency is that rating agencies issue different ratings for firms that have the same financial ratios but are located in different countries. That is, two firms with identical financial performance will not necessarily receive identical ratings.

This study attempts to identify the causes of the second inconsistency. As identified in previous works, both asset opaqueness and information asymmetry cause split ratings (Jewell and Livingston, 1998; Livingston et al., 2006, 2007). However, a direct test of the latter is unavailable. This study examines a rich data of commercial banks from 86 countries during 2002–2008. Analyzing rating inconsistency is also of particular interest for banks and their supervisors because reliable assessment of the creditworthiness of obligors is an important precondition for the stability of a financial system as an inadequately high exposure to credit risk has been one of the leading sources for problems in financial institutions worldwide for many decades (Basel Committee on Banking Supervision 2000 and 2005). As a consequence, the analysis of the inconsistency of banks' ratings across different obligor groups has also gained importance in academic research (Carey, 2001; Jacobson et al., 2006).

This paper proposes an *information asymmetry hypothesis* to investigate why ratings differ among banks with similar financial ratios in different countries. We posit that when a bank is located in an industrialized country, or in a country with strong institutional environment quality, the financial ratios are more likely to reflect bank intrinsic value. Accordingly, little asymmetric information exists between rating agencies and banks in these countries. In contrast, these asymmetric information problems are more acute in developing economies and countries with weak institutional environment quality, making banks' financial ratios more susceptible than those in developed countries (Vives, 2006). The poor financial quality of such banks leads rating agencies to doubt the credibility of financial statements and thus issue lower ratings despite identical financial ratios. Accordingly, different ratings may be issued to two banks with similar financial ratios where one is located in a country with low information asymmetry while the other is in a country with high information asymmetry.

The study makes three main contributions to the literature. First, this study demonstrates how information asymmetry influences the relationship between individual financial ratio and bank credit rating in a systematical way. Past studies, though mentioned the information asymmetry, do not examine it empirically. For example, Rojas-Suarez (2001) discussed the asymmetric information but did not proceed empirical studies. Ferri and Liu (2004) found non-financial firm ratings are explained by institutional quality but did not directly explore the information asymmetry, nor did they use banking sample. Next, our bank rating model uses the most comprehensive data set from 86 countries during 2002–2008. By contrast, previous studies use less number of sample countries and the focus is on non-financial firms (Ferri et al., 2001; Ferri and Liu, 2004; Purda, 2003; Poon, 2003). While Poon and Firth (2005) and Poon et al. (2009) investigate banks ratings, their focus is on whether unsolicited ratings are downward bias. Third, we consider the possible influence of local and international accounting standards used by different banks. Recently, the increasing studies have investigated the influence of different accounting standards on accounting quality. Our model takes them into account to avoid the missing third variable problem.

The remainder of this paper is organized as follows. Section 2 is literature review. Section 3 outlines and discusses the methodology. Section 4 describes data sources and descriptive statistical analysis. The results are reported in Section 5 and Section 6 is the robust testing. Section 7 summarizes the conclusions.

³ Horrigan (1966); West (1970); Pogue and Soldofsky (1969); Pinches and Mingo (1973, 1975); Altman and Katz (1976); Kaplan and Urwitz (1979), Cluff and Farnham (1984), and Ederington (1985); Blume et al. (1998); Estrella (2000); Tabakis and Vinci (2002).

⁴ For example, Morgan (2002) finds that the same banks or insurance companies have a high probability of being assigned different ratings when rated by different agencies, and states that this split rating results from opaqueness in bank assets.

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