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Dynamics of bond market integration between established and accession European Union countries

Suk-Joong Kim^{a,1}, Brian M. Lucey^{b,*}, Eliza Wu^{a,2}

^a School of Banking and Finance, University of New South Wales, SYDNEY UNSW 2052, Australia

^b School of Business Studies, and Research Associate, Institute for International Integration Studies, University of Dublin, Trinity College, Dublin 2, Ireland

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Abstract

In this paper, we examine the integration of European government bond markets using daily returns over the 1998–2003 period with a set of complementary techniques to assess the time varying level of financial integration. We find evidence of strong contemporaneous and dynamic linkages between Euro zone bond markets with that of Germany. However, there is much weaker evidence outside of the Euro zone for the three accession markets of Czech Republic, Hungary and Poland, and the UK. In general, the degree of integration for these markets is weak and stable, with little evidence of further deepening despite the increased political integration associated with further enlargement of the European Union (EU).

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* Corresponding author. Tel.: +353 1 6081552; fax: +353 1 66799503.

E-mail addresses: s.kim@unsw.edu.au (S.-J. Kim), blucey@tcd.ie (B.M. Lucey), e.wu@unsw.edu.au (E. Wu).

¹ Tel.: +61 2 9385 4278; fax: +61 2 9385 6347.

² Tel.: +61 2 9385 5852; fax: +61 2 9385 6347.

1. Introduction

The political, economic and monetary developments associated with the European Union (EU) have been major catalysts for regional financial market integration. As such, the next historical stage of EU enlargement will also have financial implications. Whilst there is substantial evidence of convergence in the present bond markets within the European Union (e.g., see [Galati and Tsatsaronis, 2003](#)), less is known about the level and dynamics of financial integration between the accession and established members. In this study, we focus on integration between government bond markets of three major accession countries, Poland, the Czech Republic and Hungary, as well as a subset of countries already belonging to the EU, Belgium, France, Ireland, Italy, Netherlands, UK and Germany. The choice of countries is determined by data and economic factors. In regards to data, the three accession countries chosen represent those that have the longest available time series data comparable to the established EU countries. In economic terms these countries represent the largest, most developed economies amongst the accession and established member groups, with the largest and most liquid government debt markets.

The concept of financial market integration is integral to international finance and it is intuitive that financial market integration changes with economic conditions. The economic explanation that is generally accepted is that the level of risk aversion changes and investors require time varying compensation for accepting a risky payoff from financial assets. For this reason, recent studies have allowed integration to vary over time and with events (e.g., [Aggarwal et al., 2003](#); [Barr and Priestley, 2004](#); [Bekaert and Harvey, 1995](#)). For government bonds, [Ilmanen \(1995\)](#) provided one of the first assessments on time varying expected returns using an asset pricing model. Extending from this, [Barr and Priestley \(2004\)](#) applied a similar framework to assess international bond market integration. Moreover, both [Clare and Lekkos \(2000\)](#) and [Cappiello et al. \(2003\)](#) have found significant variations in international bond market return comovements but they do not interpret this in a financial market integration context. Like [Cappiello et al. \(2003\)](#), [Christiansen \(2003\)](#) has also found some changes in European bond markets since the introduction of the Euro. [Christiansen \(2003\)](#) recently used the AR-GARCH model of [Bekaert et al. \(2002\)](#) to assess volatility spillovers in European bond markets. She provides empirical evidence that regional effects have become dominant over both own country and global effects in European Monetary Union (EMU) bond markets with the introduction of the Euro but not in non-EMU countries where country effect remains strong. Given that [Driessen et al. \(2003\)](#) find factors relating to the term structure to explain most of the variations in international excess bond returns, it is conceivable that economic convergence required as part of EU membership has inevitably led to higher levels of bond market convergence. However, this remains to be determined for EU accession members, as there is little evidence of the extent, still less the dynamics, of bond market integration.

The attention on comovements across government bond markets in the literature pales in comparison to that on stock markets. [Smith \(2002\)](#) is one of the few studies to have tested for cointegration (long-term relationship) in international government bond markets. They apply the [Johansen \(1988\)](#) and [Johansen and Juselius \(1990\)](#) techniques on monthly mixed maturity (greater than one year) bond index returns and detect the presence of cointegrating vectors. In addition, they find mixed evidence on seasonality in government bond markets. However, the literature is silent on the time varying nature of European bond market

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