

When EU corporate bond spreads widen, recession may be around the corner

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Corporate bond spreads – the difference in yields between a risky corporate bond and a low-risk government bond – have significant ability to predict GDP growth rates for the largest European economies and the onset of recessions. We found that in our [recent research](#). The study also shows that when bond spreads widen, they reduce GDP growth by a larger amount in peripheral countries of Europe than in core countries.

Part of the explanation for the effectiveness of bond spreads as a leading indicator of economic downturns is that wider spreads coincide with tighter credit supply, as reported in surveys of bank lending by the European Central Bank (ECB). Tighter credit reduces investment, spending, aggregate demand and, ultimately, future real GDP growth. The main advantage of corporate bond spreads over other indicators, such as bank lending surveys, is their timeliness and convenience.

Interest in the relationship between tightness of financial markets and the business cycle has increased since the global financial crisis. Recent attention has focused on corporate bond markets, which provide a convenient measure of credit risk that tends to rise as recessions draw near and fall as they recede. Using the spread between ‘risky’ corporate bonds and ‘low-risk’ government bonds indicates the premium required by investors as compensation for corporate default risk.

The [most recent research](#) on the relationship between bond yields and real activity has been conducted by Simon Gilchrist of Boston University and Egon Zakrajšek of the Federal Reserve Board on US bond market data. Their study confirms that changes in bond spreads offer early warnings of a decline in real activity, so that they are powerful indicators of approaching recessions.

The US researchers employ a bottom-up approach that concentrates on the careful selection of bonds to create a bond spread index that is not distorted by embedded options or illiquidity. While their work provides convincing evidence that bond spreads predict future changes in real activity in the United States, prior to the publication of the

new study, there had been no corresponding analysis for the euro area and the UK, the second and third largest bond markets respectively.

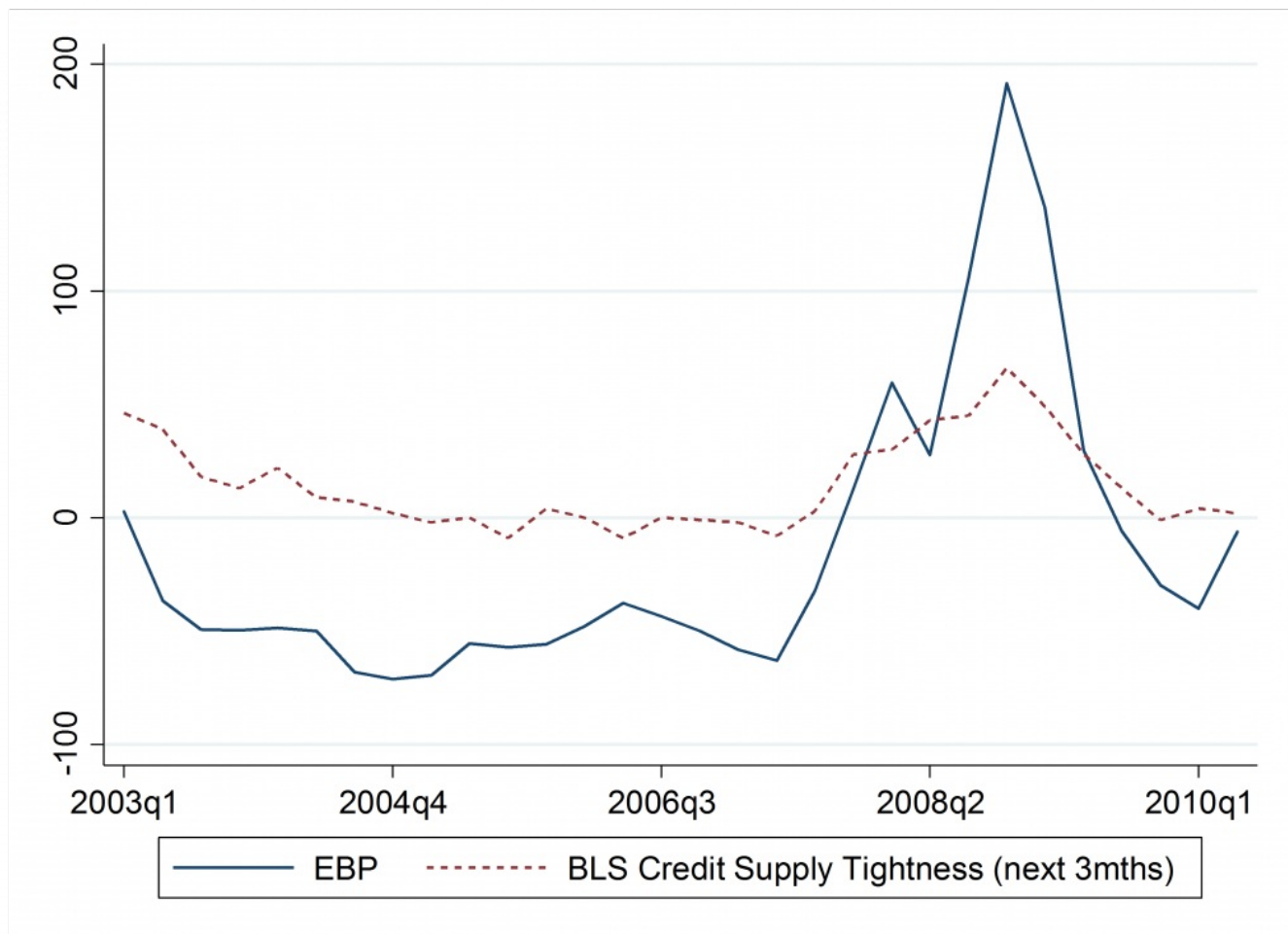
Our research constructs corporate bond indices for eight European countries using the Gilchrist-Zakrajšek approach. Our analysis makes three key contributions.

First, we show that bond spreads have significant ability to predict GDP growth rates for the largest European economies. Bond spreads provide a signal of incipient economic downturns in these countries even after allowing for domestic monetary policy tightness, leading indicators and spillover effects from global or regionally important economies (such as the United States and Germany).

Second, while there is a high degree of cross-country consistency in the signal from corporate bond spreads, the response is not identical, reflecting heterogeneity in the sensitivity of different European countries to financial conditions. A financial shock may raise spreads by larger amounts in some peripheral economies of Europe than in core countries, and the impact on real GDP in those economies is also greater due to higher sensitivity of activity to spreads.

Third, the most relevant parts of the bond spread are not the firm's default risk or other characteristics of a particular bond such as issue size or coupon payments, but the unexplained residual known as the 'excess bond premium'. This premium is also correlated with the tightness of credit supply as reported in ECB surveys of bank lending.

Figure 1. The ECB Bank Lending Survey (BLS) Credit Tightness Indicator and the Excess Bond Premium (EBP) (Next Three Months)



Notes. The Figure shows the EBP versus the BLS credit supply tightness measure obtained from the European Central Bank. The tightness refers to the conditions survey respondents expect to prevail over the next three months.

We show that a worsening of bank credit supply has a significant negative correlation with future real GDP growth. Tightness of credit supply from banks and bond markets occurs at the same time and has a similar degree of predictive ability over real activity, but it is much easier to observe this in wider bond spreads than to wait for the latest bank loan survey.

As a recent [Federal Reserve Note](#) indicates with reference to US data, bond spreads provide “a timely and useful leading indicator of economic downturns”. Our research makes the same observation for European data. It shows that corporate bond spreads can provide better predictions of real GDP growth compared with standard benchmarks even in “out-of-sample” forecasting tests.’

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Notes:

- This blog post is based on the authors’ paper [Bond Spreads and Economic Activity in Eight European Economies](#), in *The Economic Journal*, Volume 126, Issue 598, December 2016, Pages 2257–2291
- The post gives the views of its author, not the position of LSE Business Review or the London School of Economics.
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