Negative interest rates: Challenge or opportunity for Europe's banks?

By Whelsy Boungou

It has been five years since commercial banks, in particular those in the euro zone, have faced a new challenge, that of

continuing to generate profit in an environment marked by negative interest

rates.

At the onset of the 2007-2008 global financial

crisis, several central banks implemented new "unconventional" monetary policies. These consisted mainly of massive asset purchase programmes

(commonly known as Quantitative Easing, QE) and forward guidance on interest

rates. They aimed to lift the economies out of crisis by promoting better economic

growth while avoiding a low level of inflation (or even deflation). Since 2012,

six central banks in Europe (Bulgaria, Denmark, Hungary, Sweden, Switzerland

and the European Central Bank) and the Bank of Japan have gradually introduced

negative interest rates on bank deposits and reserves, in addition to the unconventional

measures already in force. For example, the ECB's deposit facility rate now stands

at -0.40% (see Figure 1). Indeed, as indicated by Benoît Cœuré [1], the

implementation of negative rates aim to tax banks' excess reserves to encourage

them to use these to boost the credit supply.

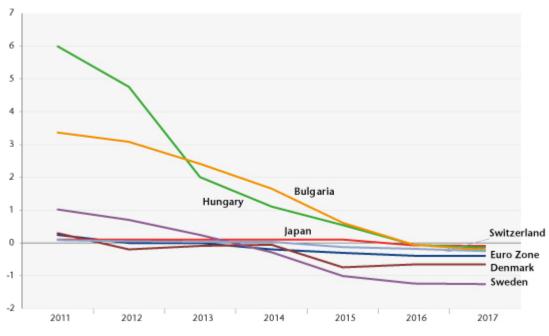


Figure 1. Changes in central bank deposit rates

However, the implementation of negative rates has raised at least two concerns about the potential effects on bank profitability

and risk-taking. First, the introduction of negative rates could hinder the

transmission of monetary policy if this reduces banks' interest margins and

thus bank profitability. In addition, the lowering of credit rates for new

loans and the revaluation of outstanding loans (mainly at variable rates)

reduces banks' net interest margin when the deposit rate cannot fall below the Zero

Lower Bound. Second, in response to the impact on margins, the banks could

either reduce the share of nonperforming loans on their balance sheets or look

for other assets that are more profitable than loans ("Search-for-yield").

In a
recent article

[2], we used panel data from 2442 banks from the 28 member countries of the

European Union over the period 2011-2017 to analyse the effects of negative

rates on bank behaviour with respect to profitability and risk-taking.

Specifically, we asked ourselves three questions: (1) What is the impact of

negative rates on banks' profitability? (2) Would negative rates encourage

banks to take more risks? (3) Would the pressure on net interest margins from

negative rates encourage banks to take more risk?

At the conclusion of our analysis, we highlight the

presence of a threshold effect when interest rates fall below the zero bar. As

can be seen in Figure 2, a 1% reduction in the central bank deposit rate

reduced banks' net interest margins by 0.429% when rates are positive, and by

1.023% when they are negative. Thus, negative rates have a greater impact on

banks' net interest margins than do positive rates. This result points to the

presence of a threshold effect at zero. In addition, in response to this

negative effect on margins (and in order to offset losses), the banks responded

by expanding their non-interest rate activities (account management fees,

commissions, etc.). As a result, in the short and medium term there was no indication

that the banks resorted to riskier positions. However, the issue of risk-taking

may eventually arise if negative rates persist for a long time and the banks

continue to suffer losses on net interest margins.

0.00%
-0.20%
-0.40%
-0.60%
-1.00%

Figure 2. The impact of central bank deposit rates on banks' interest margins

Note: This figure presents the results of our analysis of the impact of interest rates on the margins of 2442 banks operating in the European Union over the period 2011-2017. The element "positive rates" refers to the impact on the banks' interest margins of a reduction in the central bank deposit rate when this is positive. "Negative rates" refers to the impact on the banks' interest margins of a reduction in the central bank deposit rate when it is negative.

[1] Coeuré B.

(2016). Assessing the implication of negative interest rates. Speech at the Yale Financial Crisis Forum in New Haven. July 28, 2016.

[2] Boungou W. (2019). <u>Negative Interest Rates, Bank Profitability and Risk-taking. Sciences Po OFCE Working Paper no. 10/2019</u>.