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An analysis of the relevance of off-balance sheet items in explaining productivity change in European banking

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Abstract

The 1990s have witnessed a significant growth in bank income generated through non-traditional activities, especially for large EU universal banking institutions. Using the non-parametric Malmquist methodology this study analyses the impact of the inclusion of off-balance sheet (OBS) business in the definition of banks' output when estimating total factor productivity. The results show that the inclusion of OBS activities leads to a significant increase in productivity. These results are estimated to be the most prevalent activities in the banking sector.

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Notes

¹Important developments in this field have been introduced, among others, by the work of Diewert ([1976](#), [1978](#), [1981](#)), Caves et al. ([1982a](#) and [1982b](#)) and Färe et al. ([1985](#), [1994](#)).

²Shephard's ([1970](#)) distance functions have guided much of the development in efficiency and productivity analysis. In a multi-input multi-output framework, an output distance function is defined as the reciprocal of the maximum proportional expansion of the output vector, given inputs. An input distance function is defined as the reciprocal of the maximum proportional contraction of the input vector, given outputs.

³In his empirical work, Farrell ([1957](#)) defines technical efficiency as the maximum proportional contraction of inputs. He also indicated that, under constant returns to scale, this may be interpreted as the percentage by which output could be increased using the same inputs. The interpretation of Farrell's measures of technical efficiency as reciprocals of distance functions can be found in Färe et al. ([1985](#), [1994](#)).

⁴For a literature survey on the subject, see Grosskopf ([1993](#)) and Färe et al. ([1997](#)). Also, Ray and Desli ([1997](#)) discuss the conceptual framework and Mukherjee et al. ([2001](#)) derive the geometric decomposition for a generalized Malmquist index.

⁵The input distance function is similarly defined.

⁶It is to note that data on OBS items for UK banks were available on for six institutions, namely HSBC, Barclays Bank, Clydesdale Bank, Abbey National, NatWest and the Royal Bank of Scotland.

⁷Specifically, according to ECB ([2000](#) and [2003](#)) the OBS/Total Assets ratio for the whole banking sectors in the year 1994 (2000) was: 28.21 (29.76) in France, 14.54 (13.46) in Germany and 14.54 (13.46) in the UK.

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