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Credit risk migration rates modelling as open systems II: A Simulation Model and IFRS9-baseline principles

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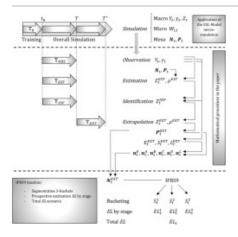
Highlights

- Credit risk migration rates matrices with entries, migrations of stayers and exits are
- A mathematical procedure to extrapolate future dynamics conditional to a macroeconomic
- scenario is developed;
- IFRS9 segmentation into buckets and prospective estimates of Expected Loss are introduced.

Abstract

In 2014 the International Accounting Standards Board (IASB) promulgated the current International Financial Reporting Standards 9 - Financial Instruments (IFRS9) that draw new lines for an ex-ante, reliable, unified and wellbalanced credit risk assessment. Among others, two principles are of interest to this paper: that of segmented and prospective estimation of expected credit losses. Within the frame of a micro-simulation approach, this paper focuses on these issues while considering the evolution of a bank portfolio. The paper presents an algorithmic procedure developed on a realistic dynamic credit risk migration rates modelling of a portfolio as an open system with entries and exits that is consistent with the segmented and prospective IFRS9 principles. Although operating at the aggregate level of the migration matrix, combining accounting principles inspired to those of the IFRS9-baseline with the open systems modelling, the main conclusion is that it allows for a more reliable provision and ex-ante and forward-looking estimation of expected losses.

Graphical abstract



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JEL classification

C15; C18; C53; C63; G11; G13; G17; G18; G21; G24; G28; G31; G34; G38; E47

Keywords

Credit risk; Migration rates models; Micro-simulation; Expected loss; Accounting standards

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