

BANK CAPITAL AND BALANCE SHEET MANAGEMENT DURING TIMES OF DISTRESS: INTERNATIONAL EVIDENCE

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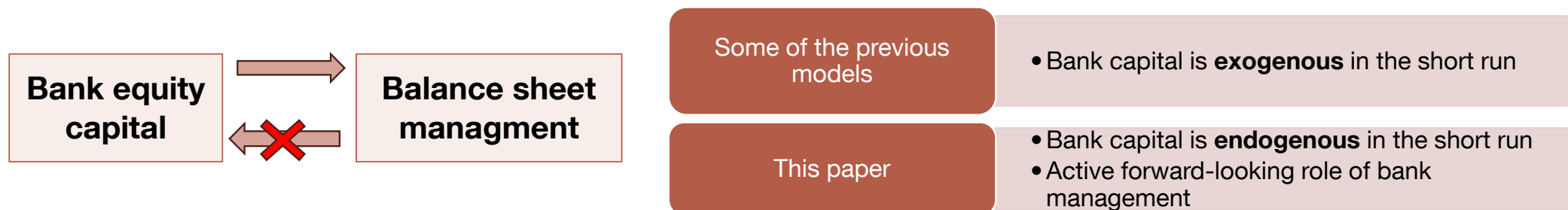
BANCO DE ESPAÑA



THE PAPER IN BRIEF

Da Rocha Lopes et al. (2025) *Bank capital and balance sheet management during times of distress: international evidence*

- Do banks actively manage their equity capital and balance sheets in the short run?



- Empirical analysis: Two exercises

1. Partial adjustment model:

1. Estimation of each bank's target capital asset ratio $\hat{Z}$
2. Simultaneous equations: $\Delta \ln(\text{Balance Sheet})$ and $\hat{Z}$

2. Endogeneity of Management Action on Capital (MAC)

1. Single-equation model: $\text{MAC} = f(\text{distress}, \hat{Z}_{t-1} \dots)$
2. Simultaneous equations system: $\Delta \ln(\text{RWA})$ and MAC

- Advances in modeling: Applicable to stress testing within a dynamic approach

SCOPE FOR IMPROVEMENT?

Da Rocha Lopes et al. (2025) Bank capital and balance sheet management during times of distress: international evidence

- **On the models**

$$\hat{Z}_{b,c,t} = 100 \times \left[\left(\frac{k_{b,c,t}}{\hat{k}_{b,c,t}^*} \right) - 1 \right].$$

- $\hat{Z}$ is a crucial variable, but few explanatory variables are significant in the model for the reported CET1
 - *Should the model be revised? Consider dropping non-significant variables*
- Is it feasible to use reported target capital asset ratios [Couaillier (2021)] instead of estimated ratios?
- Are bank fixed effects truly necessary? If included, interpret with caution: avoid cross-sectional comparisons
- The baseline model addresses Nickell bias (GMM estimates)...but not the rest
 - *Also with lagged dependent variable and fixed effects*

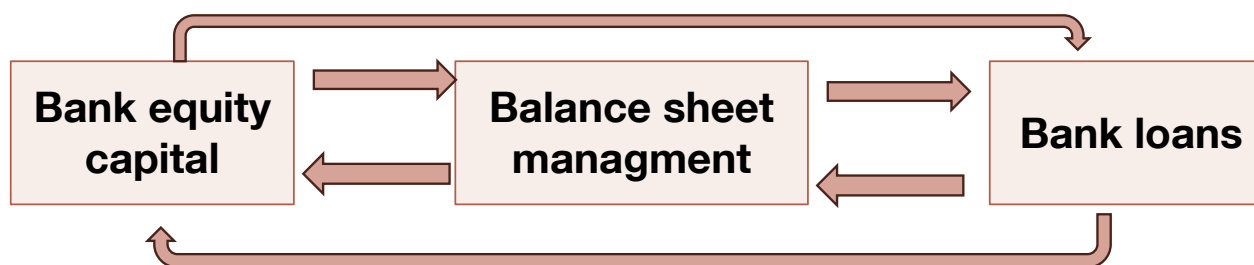
SCOPE FOR IMPROVEMENT?

- **On the research design:**
 - Dataset: 172 banks, 26 countries. Further characterize and explore the sample
 - *Banks' size (Group 1/ Group 2)*
 - *Listed vs. non listed banks*
 - *Cross-country differences*
 - The Covid period is deliberately excluded, which limits the coverage of times of distress
 - *Why not expand the sample to include data from 2020 onward?*
- **On the distress definition**
 - Based on large unexpected losses (=negative profits). Potential limitations of this measure
 - Other forms of distress are not captured
 - *(e.g.: market volatility)*
- **On the database**
 - QIS maintained on an anonymous basis. Difficult to match with external datasets. Is it a limiting factor?

SOME ISSUES TO CLARIFY

Da Rocha Lopes et al. (2025) Bank capital and balance sheet management during times of distress: international evidence

- **Further motivation for the definition of Management Action on Capital (MAC)**
 - MAC_3: Δ CET1 adjusted by the passive component of retained earnings...rationale behind?
 - Additional mechanisms of capital adjustment
 - *Dividend policies, equity issuance, asset sales (de-risking portfolios)*
- **There is no link to lending...Is an extension of the analysis in this direction feasible?**
 - The paper focused on the link between $\Delta \ln(RWA)$ and MAC
 - How capital management decisions affect loan growth and credit availability?



THANKS FOR YOUR ATTENTION!

