SECURITISATION, BANK CAPITAL AND FINANCIAL REGULATION: EVIDENCE FROM EUROPEAN BANKS

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Overview of the paper

Research Question. Study how securitiser banks manage their capital position, when transferring and when retaining the credit risk of the underlying assets

Motivating Facts. The change in the securitisation strategy of European banks in crisis time:

- until mid-2007, transfer the credit risk of the underlying assets;
- during crisis, retain the issued ABSs to increase availability of central bank eligible collateral

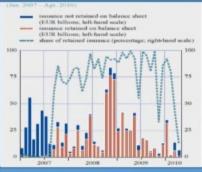
Liquidity needs of banks during crisis Banks securitised and retained eligible ABSs

Banks had to keep capital buffers for tranche retention

Main Finding. In crisis time, when securitising, banks with ex-ante weaker liquidity obtained more positive variations in risk-based capital ratios, in part. after the issuance of eligible ABSs

Rationale. Banks could still get higher prudential solvency ratios if retained securitisation exposures were subject to lower risk weights than underlying securitised assets

ABS retention during the crisis



retained from mid-2007 to start-2010 2. Peak in issuance and retention in post-

full allotment policy) ECB, 2010, Fin. Stab. Rev.

Securitisation, Credit Risk and Capital Ratios

Focus on the risk-based capital ratio

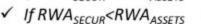
When securitising, originator can decide to:

- 1. Transfer completely the credit risk
 - CapRatio

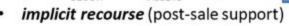


- Retain part of the credit risk
- explicit support (incl. tranche retention)
- If RWA_{SECUR}=RWA_{ASSETS}

CapRatio ==



CapRatio 🛖



CapRatio -



Data Description

- tranche-lev. data on sec. issuances (17,114 tr.)
- balance sheet info for originator banks

Empirical Analysis: Bank-Level

Baseline Specification:

 $y_{it} = \alpha_i + \delta_t + \beta SECUR_{it-1} + \gamma BANKCON_{it-1} + u_{it}$

y_{it}: CapRatio = Regulatory Capital/Risk-Weighted Assets LevCAP = Regulatory Capital/Tot Assets

LevCE = Tot Comm Equity/Tot Assets

SECURing: Securitisation Issuances/Tot Assets

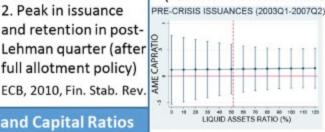
For distinct measures of bank solvency:

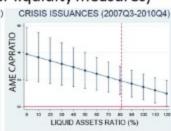
ECON. EFFECT	Time Sample	CapRatio	LevCAP	LevCE
1 St. Dev. Incr. in Securit. Ratio	1999Q1-2010Q4 2003Q1-2007Q2 2007Q3-2010Q4	+0.116	+0.248*** +0.096 +0.167	+0.02 -0.072

Differ. across ratios driven by: 1) definition of capital instr. (numer.); 2) risk weights (denom.)

Empirical Analysis: Funding Liquidity

 Most ABS issuances • Bank-level heterogeneity in funding liquidity: Interact with Liquid Assets/Depos & ST Borr. (results robust to other liquidity measures) PRE-CRISIS ISSUANCES (2003Q1-2007Q2) CRISIS ISSUANCES (2007Q3-2010Q4)



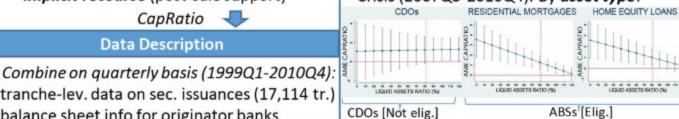


•Pre-crisis: ex-ante funding liquidity not relev. for capital management of securitiser banks

- Crisis:
 ↓ liquidity ↑ post-sec. incr. CapRatio (while no signif. change in bank leverage)
- Crisis liquidity and capital arbitrage incentives?

Empirical Analysis: Security-Level

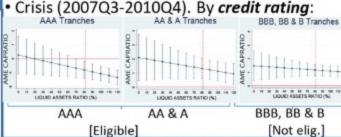
- Classify distinct classes of securitisation prod. for asset type/rating (→ collateral eligibility)
- Crisis (2007Q3-2010Q4). By asset type:



No variation

↓ Liq. ↑ Post-Sec. incr. CapRatio

Crisis (2007Q3-2010Q4). By credit rating:



Key Contributions

- The definition of capital ratios may change sign and size of variations in bank solvency
- → lev. ratio complementary to risk-based ratio
- Weaker liquidity position of originators may reinforce incentives for capital arbitrage
- Compare capital arbitrage advantages from issuance of different securitisation products