

# Monetary policy transmission by securitising banks

Dorian Henricot

European Central Bank

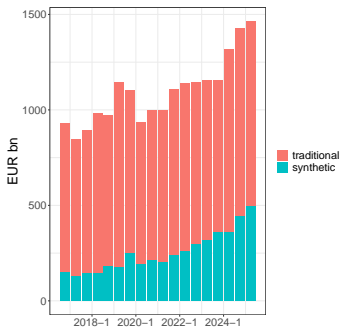
Enrico Sette

European Central Bank and CEPR

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# Motivation: securitisation is on the rise (again)



Two recent drivers:

- ▶ Development of synthetic securitisations
- ▶ Significant Risk Transfers

**Figure:** Total securitised loan pool of euro area banks (source: COREP) ▶ Traditional

▶ By sector

▶ Share securitised

▶ Number securitising

**Question: how does this affect monetary policy transmission?**

# What is the impact on transmission?

- ▶ Traditional view: securitisation makes banks more capitalised and liquid, dampening the bank lending channel [[Altunbas et al., 2009](#)]
- ▶ However: funding through securitisation may be more sensitive to monetary policy
  - ▶ Considerable evidence that securitisation supports bank lending [[Altunbas et al., 2009](#), [Osberghaus and Schepens, 2025](#)]
  - ▶ Ultimate investors expect yields consistent with market rates making securitising more profitable just after an easing shock (resp. less profitable after tightening) if lending rates adjust sluggishly

# Different lending dynamics over recent cycle



**Figure:** Median lending growth depending on securitisation activity between matched banks

# What we do

1. Using a matching approach and credit register data, show that banks actively securitising loans are more sensitive to monetary policy
2. Argue that this operates through a *securitisation channel* as the share of securitised loans also declines upon MP tightening

# Literature review

- ▶ Focus mainly of risks from securitisation on financial stability [[Albertazzi et al., 2025](#), [Benmelech et al., 2012](#), [Acharya et al., 2013](#)], more recently [Osberghaus and Schepens \[2025\]](#) on synthetic securitisations
- ▶ Less or more indirect focus on role for transmission:
  - ▶ Role of securitisation in affecting MP transmission: [Altunbas et al. \[2009\]](#) vs [Maddaloni and Peydró \[2011\]](#), [Aysun and Hepp \[2011\]](#)
  - ▶ Relative sensitivity of banks vs non-banks to MP: [Nelson et al. \[2018\]](#), [Elliott et al. \[2024\]](#), [Cucic and Gorea \[2025\]](#) vs [Chen \[2025\]](#)
  - ▶ Role of securitisation in transmitting other shocks: case of GFC market freeze in [di Patti and Sette \[2016\]](#)

# Empirical approach

We estimate the following equation for bank  $i$ , firm  $j$ , instrument type  $k$ , quarter  $t$ , horizon  $h$ :

$$\text{Log}(\text{Loan}_{i,j,k,t+h}) = \mathbb{1}\{\text{Sec}_i\} * \text{MP}_t + X_{it-1} + \text{FE}_{jt} + \text{FE}_{ij} + \epsilon_{i,j,k,t+h} \quad (1)$$

- ▶ Borrower-bank-instrument panel of loans from AnaCredit  
▶ Descriptive stats
- ▶ High-frequency monetary policy shocks with sign restriction [Jarociński and Karadi, 2020] ▶ MP shocks
- ▶ Controlling for demand using firm-time fixed effects [Khwaja and Mian, 2008]
- ▶ Sample of banks actively securitising loans pre-21Q1 matched to pre-21Q1 characteristics ▶ Matching procedure

# Matching procedure

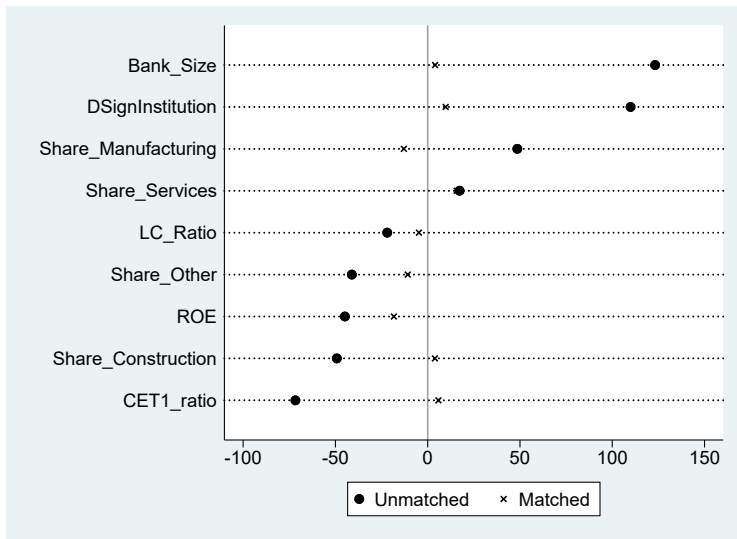


Figure: Standardized differences in means



# Main results

**Table:** Impact of securitisation on monetary policy transmission

	(1) NoControls	(2) Baseline	(3) InstFE	(4) Share	(5) TightMatch
IsScrtsn=1 $\times$ L(MP)	-0.025*** (0.004)	-0.020*** (0.005)	-0.019*** (0.004)		-0.067*** (0.022)
ShareSec $\times$ L(MP)				-0.123*** (0.033)	
L(TotAssetsLog)		-0.041 (0.025)	-0.046*** (0.015)	-0.040 (0.025)	-1.255*** (0.347)
L(CET1r)		2.055* (1.040)	-0.046 (0.379)	2.078** (1.038)	-1.187 (2.718)
L(ROE)		0.036 (0.046)	0.047* (0.026)	0.043 (0.046)	0.184 (0.160)
L(LCR)		-0.004 (0.004)	0.003 (0.003)	-0.004 (0.004)	0.029 (0.022)
Borrower-time	Yes	Yes	No	Yes	Yes
Borrower-bank	Yes	Yes	No	Yes	Yes
Borrower-Inst-time	No	No	Yes	No	No
Borrower-Inst-bank	No	No	Yes	No	No
Observations	2257631	2238705	1128485	2238705	30478
R <sup>2</sup>	0.792	0.791	0.962	0.791	0.919
r2_a	0.646	0.644	0.911	0.644	0.805

*Notes: Standard errors are clustered at the borrower and creditor level. MP shocks are expressed in standard deviation. Dependent variable is log loans. "Share" is the average share of securitised loans on banks' balance sheets pre-21Q1. "TightMatch" restricts the regression to borrowers with at least one securitising and one non-securitising lender. Signif. Codes: \*\*\*, 0.01, \*\*, 0.05, \*, 0.1.*

# Large set of robustness checks

- ▶ Change MP shock (6M, 1Y, 2Y) [▶ Table](#), also using directly changes in rates [▶ Table](#)
- ▶ Results persistent up to 1 year [▶ Table](#)
- ▶ Dependent variable in delta log: significant decline in first quarter, not compensated thereafter [▶ Table](#)
- ▶ Matching without replacement
- ▶ Grouping at the borrower-bank instead of borrower-bank-instrument type level
- ▶ Running the matching approach pre-19Q1, and the analysis since 2019Q1

# How could it work?

- ▶ On the one hand, securitising banks have less balance sheet constraints... [[Altunbas et al., 2009](#)]
- ▶ ...on the other hand, banks increase lending by tapping into a more MP-sensitive type of investors. Two key ingredients
  1. Banks increase lending with securitisation
  2. Investors in securitisations are more sensitive to monetary policy: substitutability with other market instruments who reprice with MP? risk-taking channel?

# Ingredient 1: securitisation expands lending

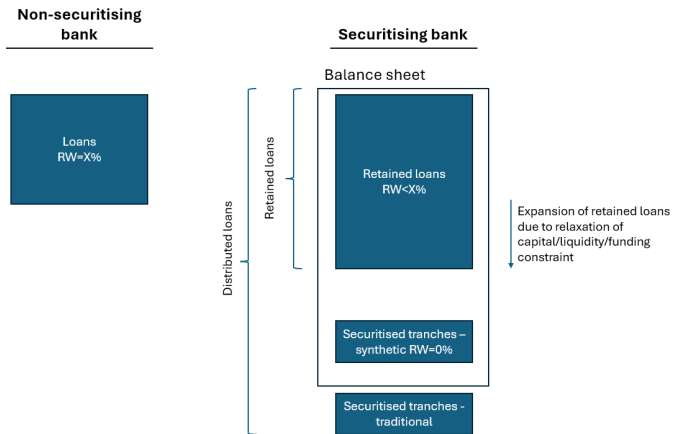


Figure: Effect of securitisation on bank asset

## Ingredient 2: securitisation investors are more sensitive to MP

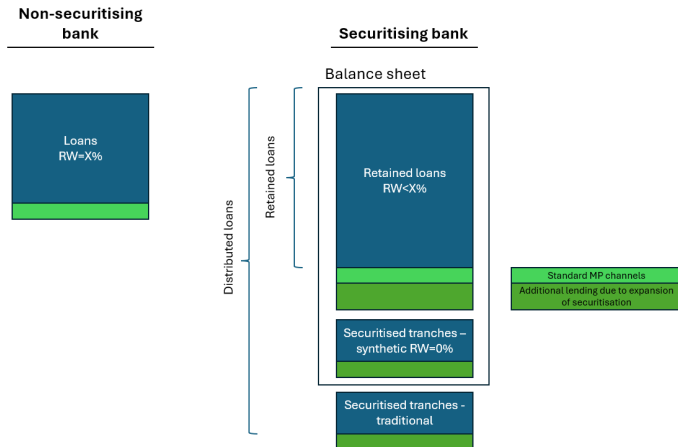


Figure: Effect of easing shock depending on whether bank securitises

# Does securitisation activity itself change with MP?

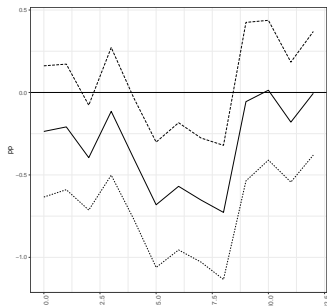
We estimate for bank  $i$  asset class  $k$  month  $t$  horizon  $h$ :

$$ShareSec_{i,k,t+h} = \beta * MP_t + X_{it-1} + FE_{m(k),r(k),i} + \epsilon_{i,k,t+h}, \quad (2)$$

- ▶ Asset classes  $k$  are residual maturity (3 buckets) - CQS brackets (6 buckets)
- ▶  $X_{it-1}$  includes bank CET1 ratio, LCR, log total assets, and ROE (2 lags)

# The share of securitised loans decreases with MP tightening

Figure: Impact of MP on securitisation



- ▶ Non-banks tighten their balance sheet above and beyond banks' contraction of lending
- ▶ Effect seems stronger for traditional securitisations suggesting funding matters? ▶ Securitisation type (shares)

# Can firms substitute out?

We estimate for firm  $i$  quarter  $t$ :

$$\text{Log}(\text{Loan}_{i,t}) = \beta * \mathbb{1}\{\text{Sec}_{it}\} * MP_t + X_{it-1} + FE_{m(i),t} + FE_i + \epsilon_{i,t},$$

- ▶  $\mathbb{1}\{\text{Sec}_{it-1}\}$ : a dummy taking value 1 if the firm is borrowing from a securitising bank at  $t-1$ / the loan-weighted share of these banks
- ▶  $FE_{m(i),t}$  are sector-size-country-time fixed effects



# Results

**Table:** Impact of securitisation on firm borrowing - firm level regression

	(1) Dummy	(2) Share
L(IsScrtn)=1	-0.465*** (0.009)	
L(IsScrtn)=1 $\times$ L(MP)	-0.033*** (0.004)	
L(ShareScrtn)		1.070*** (0.019)
L(ShareScrtn) $\times$ L(MP)		-0.028*** (0.004)
PD	0.043** (0.022)	0.113*** (0.023)
PD $\times$ L(MP)	-0.054*** (0.015)	-0.049*** (0.015)
SalesLog	-0.016*** (0.001)	-0.015*** (0.001)
SalesLog $\times$ L(MP)	-0.002*** (0.001)	-0.001 (0.001)
Cntry-Sector-Size-time	Yes	Yes
Borrower	Yes	Yes
Observations	11705091	10562454
R <sup>2</sup>	0.800	0.809
r <sub>a</sub> <sup>2</sup>	0.779	0.788

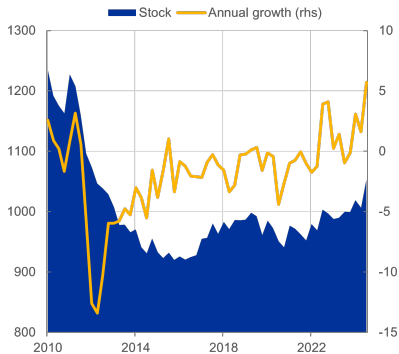
Notes: Standard errors are clustered at the borrower level. IsScrtn is a dummy taking value 1 if the borrower is linked to at least one securitising bank. ShareScrtn corresponds to the loan-weighted share of each firms' lenders which are securitising banks. Signif. Codes: \*\*\*: 0.01, \*\*: 0.05, \*: 0.1.

# Conclusions

- ▶ Banks actively securitising adjust credit supply more abruptly to monetary policy shocks
- ▶ Effect driven by *securitisation channel*: the share of securitised loans decreases, on top of the decline in lending originated
- ▶ Important implications for next monetary policy cycle given current rise in securitisation activity

## Annex

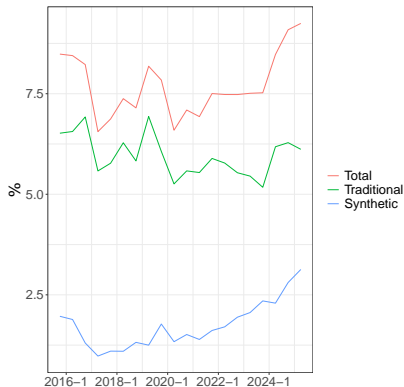
# Traditional securitisations



**Figure:** Securitised loans originated by euro area MFIs reported by FVCs, traditional (source: FVC statistics)



## Aggregate share of loans securitised



*Notes: Represents the value of securitised loans over total loans on balance sheet, to which traditionally securitised loans added back.*

**Figure:** Aggregate share of non-financial private sector loans securitised  
(source: COREP and FINREP)



## Descriptive statistics

	mean	p50	sd	p25	p75	min	max	count
Panel A.a.: Securitising banks								
Bank Size (Tn)	0.615	0.357	0.671	0.034	1.398	0.000	2.286	87
CET1 Ratio	0.142	0.134	0.030	0.124	0.148	0.107	0.311	87
ROE	0.017	0.026	0.062	-0.023	0.059	-0.161	0.171	87
LC Ratio	2.002	1.601	1.447	1.432	1.963	1.265	10.045	87
Share Manufacturing	0.171	0.155	0.130	0.066	0.253	0.000	0.507	87
share Services	0.662	0.626	0.176	0.528	0.802	0.211	1.000	87
Share Construction	0.049	0.035	0.048	0.013	0.076	0.000	0.236	87
Share Others	0.118	0.098	0.107	0.029	0.170	0.000	0.531	87
D(Significant)=1	0.782	1.000	0.416	1.000	1.000	0.000	1.000	87
Panel A.b.: Non-securitising banks								
Bank Size (Tn)	0.681	0.158	0.823	0.020	1.320	0.000	2.322	69
CET1 Ratio	0.139	0.133	0.020	0.123	0.151	0.107	0.203	69
ROE	0.032	0.038	0.051	0.018	0.069	-0.161	0.116	69
LC Ratio	2.103	1.608	1.798	1.472	2.176	1.291	15.644	69
Share Manufacturing	0.175	0.142	0.160	0.058	0.252	0.000	0.756	69
share Services	0.627	0.621	0.212	0.476	0.811	0.000	1.000	69
Share Construction	0.053	0.036	0.054	0.003	0.088	0.000	0.233	69
Share Others	0.146	0.106	0.168	0.044	0.164	0.000	1.000	69
D(Significant)=1	0.725	1.000	0.450	0.000	1.000	0.000	1.000	69
Panel B: Borrowers								
turnover (Mn)	165.032	2.378	6937.866	0.737	8.318	0.000	1209207.337	113426
Panel C: Exposures								
totcred (Mn)	2.017	0.125	24.129	0.042	0.496	0.000	5396.699	2387820
PD	0.030	0.012	0.064	0.004	0.030	0.000	1.000	1345572



## Monetary policy shocks

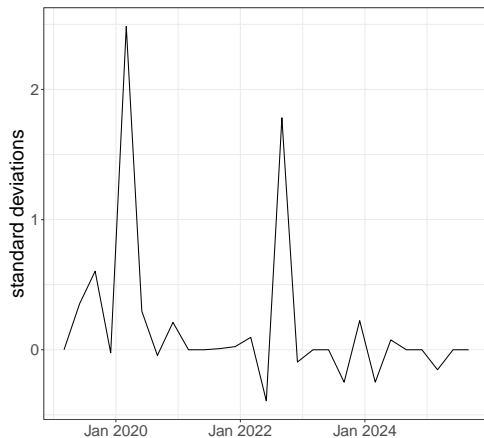


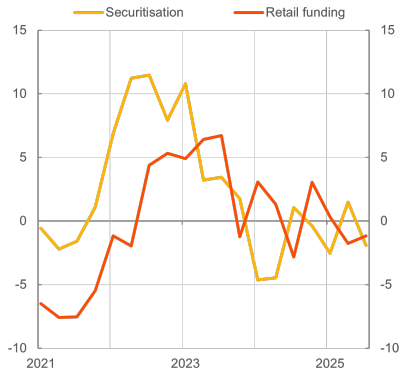
Figure: Monetary policy shocks [Jarociński and Karadi, 2020]

# Matching procedure

- ▶ Mahalobonis distance matching
- ▶ Matching variables: log total assets, ROE, CET1 ratio, LCR, dummy for SI banks, country of incorporation, sectoral specialisation (share of: construction, services, manufacturing, and other, in total corporate loans)

▶ Back

## Change in ease of funding by funding source



**Figure:** Net percentage of banks reporting a tighter access to funding by source (source: BLS)

## Robustness - using delta OIS3M

**Table:** Impact of securitisation on MP transmission - OIS3M changes

	(1) NoControls	(2) Baseline	(3) InstFE	(4) Share	(5) TightMatch
lsScrtn=1 × L(MP)	-0.017*** (0.005)	-0.018*** (0.005)	-0.010** (0.004)		-0.047*** (0.013)
ShareSec × L(MP)				-0.070* (0.037)	
L(TotAssetsLog)		-0.045* (0.026)	-0.046*** (0.015)	-0.039 (0.025)	-1.057*** (0.301)
L(CET1r)		2.150** (1.026)	0.032 (0.345)	2.112** (1.036)	0.725 (2.667)
L(ROE)		0.018 (0.049)	0.038 (0.024)	0.040 (0.046)	0.190 (0.150)
L(LCR)		-0.003 (0.004)	0.003 (0.003)	-0.004 (0.004)	0.029 (0.023)
Borrower-time	Yes	Yes	No	Yes	Yes
Borrower-bank	Yes	Yes	No	Yes	Yes
Borrower-Inst-time	No	No	Yes	No	No
Borrower-Inst-bank	No	No	Yes	No	No
Observations	2257631	2238705	1128485	2238705	30478
R <sup>2</sup>	0.792	0.791	0.962	0.791	0.919
r2_a	0.646	0.644	0.911	0.644	0.805

Notes: Standard errors are clustered at the borrower and creditor level. MP shocks are expressed in standard deviation. Dependent variable is log loans. "Share" is the average share of securitised loans on banks' balance sheets pre-21Q1. "TightMatch" restricts the regression to borrowers with at least one securitising and one non-securitising lender. Signif. Codes: \*\*\*: 0.01, \*\*: 0.05, \*: 0.1.



## Robustness - using delta log lending

**Table:** Impact of securitisation on MP transmission - local projection

	(1)	(2)	(3)	(4)
	Lead1	Lead2	Lead3	Lead4
IsScrtn=1 × L(MP)	-0.013*** (0.003)	0.003 (0.003)	-0.004 (0.003)	-0.000 (0.001)
L(TotAssetsLog)	-0.034** (0.015)	-0.032** (0.014)	-0.037** (0.015)	-0.050*** (0.017)
L(CET1r)	0.245** (0.107)	0.219** (0.102)	0.046 (0.101)	-0.061 (0.131)
L(ROE)	0.003 (0.014)	-0.010 (0.013)	0.017 (0.019)	-0.000 (0.010)
L(LCR)	-0.000 (0.001)	-0.002*** (0.001)	-0.001 (0.001)	-0.003** (0.001)
Borrower-time	Yes	Yes	Yes	Yes
Borrower-bank	Yes	Yes	Yes	Yes
Observations	1875929	1876192	1869676	1863093
R <sup>2</sup>	0.334	0.334	0.334	0.335
r2_a	-0.158	-0.158	-0.158	-0.158

Notes: Standard errors are clustered at the borrower and creditor level. MP shocks are expressed in standard deviation. Dependent variable is log loans  $h$  periods ahead. Signif. Codes: \*\*\*, 0.01, \*\*, 0.05, \*, 0.1.

## Robustness - different shocks

**Table:** Impact of securitisation on MP transmission - different shocks

	(1) OIS3M	(2) OIS6M	(3) OIS1Y	(4) OIS2Y
lsScrtsn=1 × L(MP)	-0.020*** (0.005)	-0.017*** (0.003)	-0.017*** (0.004)	-0.013*** (0.003)
L(TotAssetsLog)	-0.041 (0.025)	-0.041 (0.025)	-0.040 (0.025)	-0.039 (0.024)
L(CET1r)	2.055* (1.040)	2.055** (1.036)	2.056** (1.026)	2.064** (1.020)
L(ROE)	0.036 (0.046)	0.040 (0.046)	0.044 (0.047)	0.045 (0.046)
L(LCR)	-0.004 (0.004)	-0.004 (0.004)	-0.004 (0.004)	-0.004 (0.004)
Borrower-time	Yes	Yes	Yes	Yes
Borrower-bank	Yes	Yes	Yes	Yes
Observations	2238705	2238705	2238705	2238705
R <sup>2</sup>	0.791	0.791	0.791	0.791
r2_a	0.644	0.644	0.644	0.644

Notes: Standard errors are clustered at the borrower and creditor level. MP shocks are expressed in standard deviation. Dependent variable is log loans. Signif. Codes: \*\*\*, 0.01, \*\*, 0.05, \*, 0.1.

## Effect of securitisation type

**Table:** Impact of securitisation on MP transmission - share securitised loans

	(1) TotalShare	(2) ShareSynthetic	(3) ShareTraditional	(4) BothShares
ShareSec $\times$ L(MP)	-0.123*** (0.033)			
ShareSecSynth $\times$ L(MP)		-0.106*** (0.036)		-0.106*** (0.034)
ShareSecTrad $\times$ L(MP)			-0.170*** (0.064)	-0.171*** (0.061)
L(TotAssetsLog)	-0.040 (0.025)	-0.039 (0.025)	-0.041 (0.025)	-0.040 (0.025)
L(CET1r)	2.078** (1.038)	2.079** (1.040)	2.068** (1.037)	2.075** (1.038)
L(ROE)	0.043 (0.046)	0.045 (0.046)	0.042 (0.046)	0.043 (0.046)
L(LCR)	-0.004 (0.004)	-0.004 (0.004)	-0.005 (0.004)	-0.005 (0.004)
Borrower-time	Yes	Yes	Yes	Yes
Borrower-bank	Yes	Yes	Yes	Yes
Observations	2238705	2238705	2238705	2238705
R <sup>2</sup>	0.791	0.791	0.791	0.791
r2_a	0.644	0.644	0.644	0.644

Notes: Standard errors are clustered at the borrower and creditor level. MP shocks are expressed in standard deviation. Dependent variable is log loans. Signif. Codes: \*\*\*, 0.01, \*\*, 0.05, \*, 0.1.



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