

Lending Activity Patterns in CEE: Evidence from Ownership Structure Effects

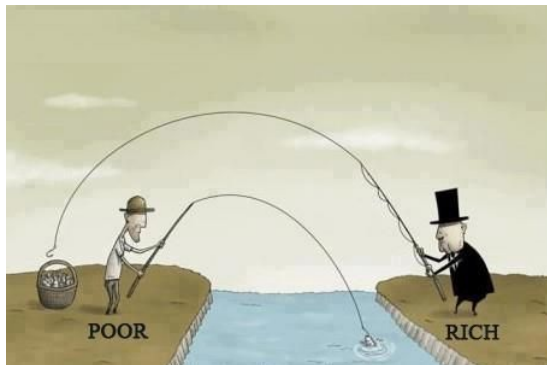
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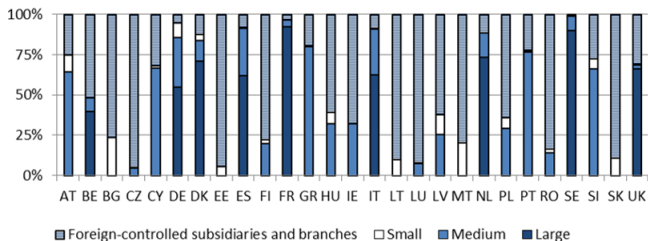
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Motivation



Foreign-controlled banks

Total assets held by small, medium, and large domestic banks and foreign subsidiaries and branches (as % of total assets), 2011



Source: ECB consolidated banking data.

Motivation

- post-socialist transition brought large-scale banking reforms in CEE
 - shift from state-owned to privatized banks in the 1990s
 - entry of foreign strategic investors (Bonin et al., 2005; Clarke et al., 2005)
 - aimed to stabilize banking systems and align with EU norms
- dominance of foreign banking groups reshaped credit markets

Early Benefits of Foreign Ownership

- improved governance, risk management (Fries & Taci, 2005; Hanousek et al., 2012)
- enhanced capital adequacy, better loan portfolios (de Haas & van Lelyveld, 2006)
- greater financial intermediation and macro-financial credibility
- lending patterns and credit efficiency
 - foreign banks introduced credit discipline and reduced political interference
 - SMEs benefited from diversified financial products
 - pre-crisis: stronger profitability, stability among foreign banks

GFC and Exposure to External Shocks

- parent bank retrenchment during 2008–2009 crisis (Cull & Pería, 2013)
- internal capital markets amplified transmission of global shocks
- "Home bias" led to local credit contractions (de Haas & van Lelyveld, 2014)
- depreciation of the currencies in CEECs (to improve competitiveness and deal with capital flight)
 - forex interventions belong to unconventional monetary policy tools after the financial crisis in the Czech Republic, Japan, Denmark, Switzerland, New Zealand, Poland and Israel
 - depreciation shocks were identified in Romania, Latvia, Hungary, Poland, Slovenia, UK and (currently) in the Czech Republic

Ownership and Lending Behavior

- foreign banks remained more stable lenders post-crisis
- domestic banks showed pro-cyclical lending and political bias
- rising concern over crowding out and distorted credit allocation
- rise of Economic Nationalism
 - policy responses favoring domestic control (Brana & Lahet, 2017)
 - re-nationalization in Hungary; hesitation to join eurozone
 - backlash over dividend outflows to parent banks (IMF, 2020)

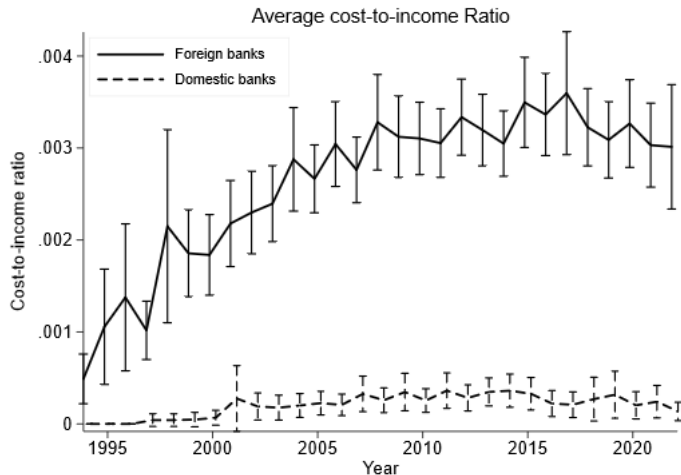
Contribution

- we identify systematic differences in credit supply between foreign- and domestically owned banks
- we focus on bank financial indicators (bank specifics)
- we highlight how ownership mediates the transmission of financial characteristics into credit supply
- we analyze long time period (1994–2022) and cover several crises

Data

- 461 commercial banks in CEECs (Bureau van Dijk/Moodys) in the years 1994 – 2022 (5,548 observations)
 - gross loans (gross loans to total assets) and selected banking controls (total assets, cost-to-income ratio, non-interest income, net interest margin, liquidity ratio, financial leverage, loan loss reserves)
 - ownership structure (banks, industry, government)
- selected macroeconomic shocks
 - economic activity indicator (GDP), inflation (HICP), policy interest rates (marginal lending facility), depreciation shocks (NEER)
 - institutional quality (World Governance Indicators, WGI)
- outliers were removed outside the 5% and 95% percentile

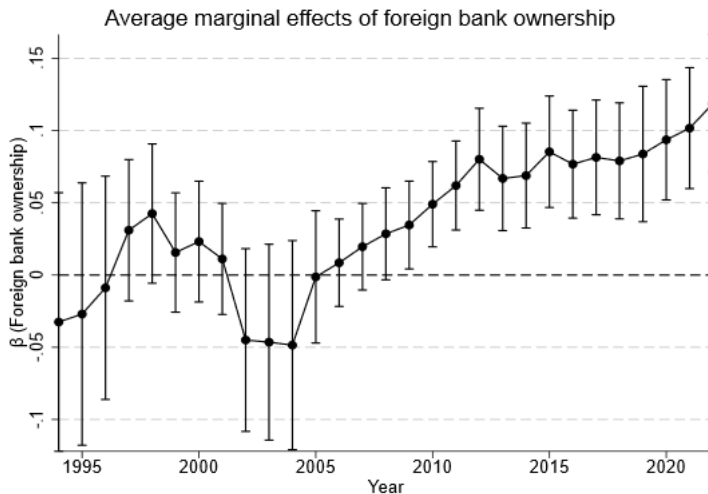
Foreign vs. domestic bank ownership



Bank lending and macroeconomic fundamentals

	(1)	(2)	(3)	(4)	(5)	(6)
	Dependent variable: lending activity					
Lending (lagged)				0.987*** (0.089)	0.706*** (0.086)	0.710*** (0.084)
Banks foreign			0.043*** (0.013)			0.016* (0.008)
Banks domestic			-0.007 (0.041)			-0.020 (0.014)
Industry foreign			0.027 (0.027)			0.014 (0.013)
Industry domestic			0.012 (0.027)			0.008 (0.011)
Government			-0.010 (0.041)			0.012 (0.017)
Total assets / GDP (%)	-0.069 (0.070)	-0.068 (0.069)	-0.083 (0.072)	-0.264 (0.163)	-0.279* (0.166)	-0.271* (0.161)
Cost To Income Ratio (%)	-3.563*** (1.190)	-3.383*** (1.226)	-3.361*** (1.218)	-0.843 (0.728)	-1.767*** (0.739)	-1.646*** (0.710)
Non-interest income (%)	-0.020 (0.073)	0.064 (0.081)	0.067 (0.081)	0.103* (0.052)	0.042 (0.062)	0.054 (0.061)
Net Interest Margin (%)	0.393** (0.175)	0.377** (0.175)	0.382** (0.176)	0.083 (0.102)	0.196* (0.115)	0.220* (0.120)
Liquidity ratio	-0.728*** (0.027)	-0.733*** (0.028)	-0.731*** (0.028)	-0.121* (0.070)	-0.334*** (0.063)	-0.326*** (0.060)
Equity / Total Assets (%)	-0.714*** (0.243)	-0.747*** (0.238)	-0.747*** (0.238)	-0.347*** (0.123)	-0.464*** (0.167)	-0.464*** (0.165)
Loan Loss Reserve / Gross Loans (%)	0.768*** (0.285)	0.753*** (0.288)	0.756*** (0.288)	0.032 (0.074)	0.217*** (0.057)	0.218*** (0.058)
Constant	0.849*** (0.030)	0.920*** (0.038)	0.900*** (0.038)	0.090 (0.064)	0.367*** (0.082)	0.348*** (0.075)
Macroeconomic controls	NO	YES	YES	NO	YES	YES
WGI controls	NO	YES	YES	NO	YES	YES
No of observations	5,548	5,392	5,392	5,176	5,051	5,051
No of banks	461	451	451	456	446	446
AR(1)				-7.03***	-4.49***	-4.59***
AR(2)				1.19	0.8	0.83
Hansen				65.13	94.85	94.2

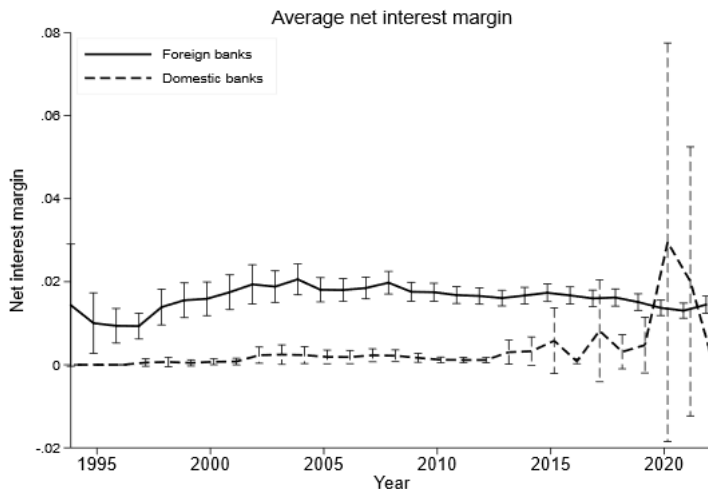
Bank lending and macroeconomic fundamentals



Foreign vs. domestic bank ownership

	(1)	(2)	(3)	(4)	(5)	(6)
	Dependent variable: lending activity					
Lending (lagged)				0.574***	0.974***	0.981***
Liquidity ratio	-0.741***			-0.433***		
Liquidity ratio x Foreign banks		-0.507***	-0.534***		-0.064	-0.085
Liquidity ratio x Domestic banks		-0.552***	-0.524***		-0.051	-0.098
Equity / Total Assets %	-0.749***			-0.488***		
Equity / Total assets (%) x Foreign banks		0.245**	0.051		0.076	-0.060
Equity / Total assets (%) x Domestic banks		-0.423***	-0.549***		0.011	-0.147
Loan Loss Reserve / Gross Loans %	0.739***			0.322***		
Loan loss reserves / Gross loans (%) x Foreign b		0.477***	0.458***		0.027	0.001
Loan loss reserves / Gross loans (%) x Domestic		0.731**	0.348		0.038	-0.021
Total assets / GDP x Foreign banks	0.061		0.178**	-0.032		-0.005
Total assets / GDP x Domestic banks	-0.033		0.583***	0.146		0.644**
Cost-to-income ratio (%) x Foreign banks	-2.620**		0.369	-2.155***		0.853
Cost-to-income ratio (%) x Domestic banks	-9.183		5.628	-2.918		2.767
Non-interest income x Foreign banks	-0.012		0.084	0.038		0.075
Non-interest income x Domestic banks	0.489***		0.576***	0.274**		0.067
Net interest margin (%) x Foreign banks	0.676**		1.204***	0.561***		0.533**
Net interest margin (%) x Domestic banks	0.273		0.380	0.014		0.022
Constant	0.909***	0.728***	0.664***	0.456***	0.072	0.033
Other bank controls	NO	YES	YES	NO	YES	YES
Macroeconomic controls	NO	YES	YES	NO	YES	YES
WGI controls	NO	YES	YES	NO	YES	YES
No of observations	5,392	5,392	5,392	5,051	5,051	5,051
No of banks	451	451	451	446	446	446
AR(1)				-7.01***	-6.09***	-5.65***
AR(2)				0.94	1.06	1.24
Hansen				78.36	89.59	91.88

Foreign vs. domestic bank ownership



Conclusions

- recent literature show that the foreign-owned banks exhibited stronger performance metrics than their domestic counterparts
 - we identify higher cost-to-income ratio in foreign owned banks
 - foreign owned banks apply higher interest margins
- increasing effect of of foreign bank ownership on lending activity
 - especially after the financial crisis
 - impact of "internal capital market"
- the results are largely robust to changes in specification forms and for different sub-samples:
 - bank size, crises periods, expansions and recessions

Conclusions

- our evidence indicates that foreign banks operate with a higher cost-to-income ratio, yet they maintain higher net interest margins
 - weaker cost efficiency is offset by superior revenue generation capacity
 - lending interest rates are generally at a similar level across banks due to the highly competitive market
 - cheaper funding sources through their parent institutions or international markets
 - household savings represent a significant share of banks' funding base (in CEECs)
 - foreign banks may be perceived as more stable and trustworthy (reputation effect), households are willing to place savings with foreign banks at lower deposit rates

Implications

- characteristics of the financial sector are important for the optimal design of monetary and economic policy
- international mergers increase the need for the international coordination of banking regulations

Thank you for your attention . . .

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