

Banking on Sustainability: Strategic Incentives Behind Sustainability-Linked Loans

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Motivation

Banks play an important role as financial intermediaries

- Financial intermediaries provide access to credit and engage in monitoring
- Banks have increased participation in green initiatives
 - Sustainability-linked loans (SLL) were first introduced in 2017 by ING
 - The market expanded quickly, with more than 400 banks offering SLLs in more than 70 countries by 2022
 - SLLs are general-purpose loans that link pricing terms to Key Performance Indicators (KPIs)
- What drives banks' decisions to participate in this market and offer SLLs?

Research question

- What are the potential drivers?
 - Focusing on new products might allow banks to expand to new markets
 - In competitive markets, SLL deals might allow banks to provide differentiated products for sustainability-conscious borrowers
 - Regulators and policy-makers have tried to address environment and sustainability concerns
 - Banks signal their commitment to sustainability by offering new loan products
- What are the potential costs?
 - Environmental, Social, and Governance (ESG) metrics are diverse and require expertise, acquisition, and monitoring costs
 - SLLs might affect the cost of capital for banks
 - Reduced revenue due to interest rate reduction if borrowers achieve the targets

Research question

- What are the economic incentives for banks to offer SLLs?
 - Investigate which bank characteristics are associated with innovation in this market
 - Investigate how banks in different markets might be affected given product market concentration and regulatory environment
 - Provide insights into the consequences of these decisions
 - Provide an opportunity for studying the dynamics of
 - Sustainability financing
 - Banks' incentives for financial innovation

Research setting

- Focus on SLL
 - Specific loans or deals in the syndicated loan market
 - Intended to provide incentives for borrowers to meet sustainability or other ESG-related targets
 - Provides opportunities to lower the borrower's cost of financing if certain targets are achieved

Research setting: Example

- 2021 SLL agreement with Trimble Inc.
 - International technology company that provides solutions in various sectors, from agriculture to construction
 - BofA Securities (USA) Inc. and TD Securities (USA) LLC serve as co-sustainability structuring agents
 - KPI metrics are based on the greenhouse gas (GHG) emissions (Scope 1 and Scope 2) and the percentage of gender-diverse employees
 - The sustainability targets are for a 13.6% reduction in GHG emissions and a gender diversity employee percentage greater than 30%, using 2019 as the benchmark
 - The targets need to be met by 2026
 - Upon reaching the targets and after the borrower submits the pricing certificate to the sustainability agent, the applicable margin can be adjusted by up to 0.05%, and the applicable facility fee percentage can be altered by up to 0.01%

Related literature

- Emerging literature on SLLs
 - Contract design (Kim et al. 2025; Loumioti and Serafeim 2022; Carrizosa and Ghosh 2022)
 - Lenders' benefits from SLL market participation (Du et al. 2022)
- Lender monitoring of borrowers' ESG performance
 - Banks adopt certain principles and include more environmental covenants (Amiram et al. 2021)
 - Banks subject to ESG disclosure regulation change how they engage with borrowers (Wang 2023; Choy et al. 2023)
- Banks' role in financial innovation
 - Banks' incentives to innovate reflect costs and benefits of innovation and regulation (Gale 1992; Thakor 2012)
 - SLLs provide borrowers with more flexibility (Guthrie 2023)

Key findings

- Multinational banks are more likely to offer SLLs than domestic-focused banks
- Local loan market competition discourages innovation
 - Market leaders are more likely to offer SLLs
 - Likelihood diminishes as concentration increases
- ESG-reporting regulation encourages SLL offering, but does not improve future ESG ratings
- Positive association between SLLs and future market share and interest income
- SLL borrowers tend to be less risky

Data sources

- ① Refinitiv LoanConnector DealScan
 - ② Thomson Refinitiv
 - ③ FR Y-14Q
 - ④ Call Reports
- Sample period: 2016–2022
 - 1,238 distinct SLLs
 - 13,078 bank-country-year observations

Sample construction

Data

Distribution of SLLs

- The largest share of SLLs is provided by the largest multinational banks
- Large banks are active in foreign SLL markets

Bank	Bank home country	Total number of SLL led	Total volume of SLL led (\$ billions)	Total number of times acted as sustainability agent	Total number of non-ESG loans led	Total volume of non-ESG loans led (\$ billions)	Number of foreign countries led SLL	Number of foreign SLL led
BNP Paribas SA	France	1019	81.514	134	9889	840.253	42	801
Credit Agricole Corporate & Investment Bank SA...	France	768	53.553	182	6305	406.787	37	492
BofA Securities	United States	632	87.818	117	18523	2722.654	32	338
HSBC Banking Group	United Kingdom	627	56.921	112	7012	643.713	42	552
ING Group	Netherlands	624	44.792	126	5907	352.626	37	544
Societe Generale SA	France	587	42.526	38	5194	365.546	36	412
Mizuho Financial Group Inc	Japan	550	51.374	34	4969	638.954	40	463
JP Morgan	United States	539	70.773	79	16756	2611.320	31	287
Sumitomo Mitsui Financial Group Inc	Japan	532	44.512	85	4384	420.564	41	484
Banco Santander SA	Spain	500	38.539	102	4482	245.880	27	254
Mitsubishi UFJ Financial Group Inc	Japan	499	44.148	47	6906	775.247	41	458
Citi	United States	460	58.185	33	9280	1670.805	38	318
UniCredit	Italy	459	36.664	75	4264	248.750	25	382
Banco Bilbao Vizcaya Argentaria SA [BBVA]	Spain	399	28.737	157	2943	155.133	23	153
Barclays	United Kingdom	351	37.616	38	9596	1210.731	24	280
Deutsche Bank AG	Germany	347	32.290	30	8560	991.677	26	271
Natixis SA	France	321	24.375	64	3388	230.151	22	171
Caixabank SA	Spain	311	17.042	56	1652	52.455	11	92
Rabobank	Netherlands	300	24.057	97	2382	146.632	30	235
Commerzbank AG	Germany	287	22.432	15	3008	195.604	23	176

Data

Growth in the SLL market

- SLLs have increased significantly since 2017
- SLLs far outpaced “green loans”

Year	Total number of non-ESG loans	Total volume of non-ESG-loans (\$ billions)	Total number of SLLs	Total volume of SLLs (\$ billions)	Total Number of Green Loans	Total volume of green loans (\$ billions)	Total number of banks entering SLL market	SLL relationship (%)	SLL origination (%)	SLL public borrower (%)	SLL new origination (%)
2016	10622	4065.965			88	5.431					
2017	12385	5033.839	3	2.258	81	7.668	23	1.000	0.333	1.000	
2018	13102	5451.361	56	49.763	108	20.166	55	0.643	0.607	0.679	0.286
2019	12157	4674.492	207	137.060	225	43.506	56	0.662	0.729	0.618	0.285
2020	10740	4389.535	299	178.496	367	63.023	37	0.592	0.779	0.508	0.401
2021	11334	5123.096	1014	653.839	428	88.835	105	0.554	0.743	0.447	0.396
2022	8318	3714.253	1823	797.552	546	135.488	132	0.455	0.808	0.393	0.527

Additional descriptives

Determinants of SLL deal offering

- ❶ What banks and market characteristics matter for banks offering SLLs?

$$Y_{i,j,t+1} = \alpha + \beta M_{j,t} + \gamma X_{i,j,t} + \eta_j + \delta_t + \epsilon_{i,j,t+1},$$

where

- $Y_{i,j,t+1}$ = Indicator if a bank i leads at least one SLL in a borrower-country j in year $t+1$. Zero if a bank i does not lead any SLLs but leads a non-SLL syndicated loan in country j in year $t+1$
- $M_{j,t}$ = Loan market-level variables for a given borrower country lagged by one year. Includes loan market concentration measure in year t (*total_hhi*) and an indicator for whether a borrower country has any SLLs in year t (*country_year_esg_indicator*)
- $X_{i,j,t}$ = Bank-specific characteristics, including size, origin, relationship lending, sustainability-related experience, home-country ESG-related regulation, and exposure
- δ_t and η_j are *year* and *country* fixed effects
- Cluster standard errors by country and bank

Summary statistics

Determinants

Determinants of SLL deal offering

		Full Sample					
		sll_lead_t1		sll_new_origination_t1			
		(1)	(2)	(3)	(4)	(5)	(6)
Market	total_hhi	0.392*** (0.136)			0.208* (0.108)		
	country_year_sll_indicator	0.050** (0.024)			0.022 (0.020)		
Bank	loan_leader	0.205*** (0.023)	0.218*** (0.024)	0.226*** (0.024)	0.126*** (0.017)	0.131*** (0.018)	0.139*** (0.019)
	loan_leaderx_hhi	-0.722*** (0.132)	-0.877*** (0.172)	-0.941*** (0.154)	-0.386*** (0.105)	-0.438*** (0.143)	-0.492*** (0.129)
	rel_perc	0.006 (0.012)	0.023* (0.012)	0.032** (0.013)	-0.002 (0.008)	0.002 (0.006)	0.005 (0.006)
	has_refinitiv	0.068** (0.046)	0.159*** (0.048)		0.069** (0.033)	0.138*** (0.044)	
	loan_growth	-0.024*** (0.004)	-0.026*** (0.004)	-0.035*** (0.004)	-0.012*** (0.003)	-0.011*** (0.003)	-0.016*** (0.003)
Initiatives/ Regulation	pri_sig	0.009 (0.032)	-0.009 (0.033)		-0.006 (0.024)	-0.021 (0.022)	
	bank_home_regulation	0.007 (0.045)	-0.018 (0.048)		-0.064 (0.038)	-0.081** (0.040)	
	sldr	0.015 (0.042)	0.075* (0.041)		0.042 (0.047)	0.110** (0.045)	
Experience	prior_sll_par_exp	0.139*** (0.022)	0.129*** (0.024)		0.079*** (0.020)	0.073*** (0.022)	
	prior_green_loan_exp	-0.012 (0.018)	-0.029 (0.018)		-0.011 (0.018)	-0.025 (0.019)	
	top_20_foreign	-0.015 (0.038)	0.003 (0.040)	-0.117** (0.050)	0.008 (0.023)	0.021 (0.027)	-0.134*** (0.049)
	top_20_home	0.095 (0.059)	0.117** (0.058)		0.136** (0.056)	0.155*** (0.055)	
	multinational_foreign	-0.105*** (0.021)	-0.108*** (0.020)	-0.163*** (0.029)	-0.078*** (0.025)	-0.089*** (0.024)	-0.134*** (0.026)
	multinational_home	0.068*** (0.026)	0.061** (0.024)		0.059** (0.029)	0.047* (0.028)	
Observations		13,078	13,022	11,420	13,078	13,022	11,420
Adjusted R-squared		0.373	0.447	0.469	0.252	0.333	0.363
Country FE		YES	NO	NO	YES	NO	NO
Bank FE		YES	YES	NO	YES	YES	NO
Year FE		YES	NO	NO	YES	NO	NO
Country x Year		NO	YES	YES	NO	YES	YES
Bank x Year		NO	NO	YES	NO	NO	YES
Cluster		Country Bank	Country Bank	Country Bank	Country Bank	Country Bank	Country Bank
Mean dependent variable		0.214	0.214	0.214	0.122	0.122	0.122

- Focus on decisions to lead SLLs for banks in a given country and year
- Bank size, competition, experience, but not home regulation, appear to matter
- All specifications include country and year fixed effects; standard errors are clustered at country level and bank level

Determinants

Determinants of SLL deal offering

- Domestic only banks differ from multinationals

	Multinational Foreign Markets			Home Market	
	<i>sll_lead_t1</i>			<i>sll_lead_t1</i>	
	(1)	(2)	(3)	(4)	(5)
<i>total_hhi</i>	0.402*** (0.145)			0.089 (0.229)	
<i>country_year_sll_indicator</i>	0.053** (0.026)			0.013 (0.039)	
<i>loan_leader</i>	0.197*** (0.023)	0.217*** (0.024)	0.212*** (0.021)	0.059 (0.036)	0.002 (0.041)
<i>loan_leader > hhi</i>	-0.739*** (0.130)	-0.933*** (0.160)	-0.953*** (0.129)	-0.162 (0.335)	0.032 (0.466)
<i>rel_perc</i>	0.006 (0.013)	0.025** (0.013)	0.027* (0.014)	-0.071*** (0.021)	-0.050*** (0.015)
<i>exposure</i>	0.170*** (0.046)	0.151*** (0.049)	0.278*** (0.055)	-0.109*** (0.038)	-0.117*** (0.041)
<i>has_refinitiv</i>	0.101*** (0.026)	0.208*** (0.025)		-0.037 (0.103)	-0.019 (0.063)
<i>loan_growth</i>	-0.028*** (0.004)	-0.031*** (0.004)	-0.036*** (0.004)	0.014** (0.006)	0.022*** (0.008)
<i>prior_sll_par_exp</i>	0.104*** (0.020)	0.102*** (0.021)		0.297*** (0.045)	0.219*** (0.037)
<i>prior_green_loan_exp</i>	-0.038** (0.018)	-0.054*** (0.018)		0.104*** (0.036)	0.083** (0.037)
Observations	10,687	10,623	9,926	2,243	2,200
Adjusted R-squared	0.363	0.443	0.465	0.503	0.607
Country FE	YES	NO	NO	YES	NO
Bank FE	YES	YES	NO	YES	YES
Year FE	YES	NO	NO	YES	NO
Country x Year	NO	YES	YES	NO	YES
Bank x Year	NO	NO	YES	NO	NO
Cluster	Country Bank	Country Bank	Country Bank	Country Bank	Country Bank
Mean <i>sll_lead_t1</i>	0.211	0.211	0.211	0.230	0.230

Determinants of SLL deal offering

- Determinants of new SLL contracts issued to new borrowers:
 - More information frictions, higher information acquisition cost, and monitoring cost
 - Bank size, competition, experience, and home regulation are significant factors
 - Additionally, ESG coverage is not important
- Determinants of the sustainability agent role:
 - Results are similar to those for new SLL contracts issued to new borrowers
 - Larger banks are more likely to take on this role

New originations

Sustainability agents

ESG scores

Consequences of SLL offering

2 Do banks benefit from leading SLLs?

$$Consequence_{i,j,t+1} = \alpha + \beta M_{j,t} + \gamma X_{i,j,t} + \theta_i + \eta_j + \delta_{t+1} + \epsilon_{i,j,t+1},$$

where

- $Consequence_{i,j,t+1}$ = Bank i market share ($first_time_market_share_{t1}$), capturing market share through new lending, or ($rel_borr_market_share_{t1}$), capturing relationship borrowing of bank i , or ($switch_borr_market_share$), capturing non-first time borrowers that switched banks; similar specification for interest income ($ln_interest_income_{t1}$ or $ln_interest + fee_income_{t1}$) and ESG score and components
- $M_{j,t}$ = Market-specific characteristics
- $X_{i,j,t}$ = Bank-specific characteristics, including if a bank was an SLL lead or sustainability agent in year t
- θ , η , and δ are *bank*, *country*, and *year* fixed effects
- Cluster standard errors by country and bank

Descriptives

Consequences

Consequences: Market share

- Offering SLLs to local borrowers helps gain higher market power by extending more loans to relationship borrowers

Full Sample				
VARIABLES	<i>market_share_t1</i> (1)	<i>first_time_market_share_t1</i> (2)	<i>rel_market_share_t1</i> (3)	<i>switch_borr_market_share_t1</i> (4)
<i>sll_lead</i>	0.554*** (0.162)	0.393 (0.278)	0.366*** (0.108)	2.345 (1.684)
<i>sll_foreign_lead</i>	1.255*** (0.313)	1.289** (0.531)	0.660*** (0.179)	1.870** (0.940)
<i>sustainability_agent</i>	1.515*** (0.373)	2.284** (0.875)	1.054*** (0.219)	1.943 (1.580)
Observations	11,420	11,420	11,420	11,420
Adjusted R-squared	0.329	0.168	0.327	0.157
Controls	YES	YES	YES	YES
Country FE	NO	NO	NO	NO
Bank FE	NO	NO	NO	NO
Year FE	NO	NO	NO	NO
Bank x Year	YES	YES	YES	YES
Country x Year	YES	YES	YES	YES
Cluster	Country Bank	Country Bank	Country Bank	Country Bank
Mean Dependent Variable	2.086	1.764	1.030	1.953

Additional analyses

Consequences

Consequences: Market share

- Acting as a sustainability agent in local SLLs gains market share, including from new borrowers
- Benefits mostly pertain to multinational banks in foreign markets

VARIABLES	Multinational Foreign Sample				Home Market Sample
	<i>market_share_t1</i>	<i>first_time_market_share_t1</i>	<i>rel_market_share_t1</i>	<i>switch_borr_market_share_t1</i>	<i>market_share_t1</i>
	(5)	(6)	(7)	(8)	(9)
<i>sll_lead</i>	0.410*** (0.143)	0.218 (0.321)	0.297*** (0.097)	2.616 (1.918)	0.075 (0.335)
<i>sll_foreign_lead</i>	0.760* (0.403)	-0.441 (0.570)	0.431** (0.196)	0.616 (1.045)	-0.209 (0.425)
<i>sustainability_agent</i>	1.401*** (0.424)	2.021** (0.781)	0.721*** (0.202)	2.359 (1.772)	-0.196 (0.466)
<i>sustainability_agent_foreign</i>					-0.116 (0.720)
Observations	9,926	9,926	9,926	9,926	2,200
Adjusted R-squared	0.291	0.108	0.316	0.168	0.592
Controls	YES	YES	YES	YES	YES
Country FE	NO	NO	NO	NO	NO
Bank FE	NO	NO	NO	NO	YES
Year FE	NO	NO	NO	NO	NO
Bank x Year	YES	YES	YES	YES	NO
Country x Year	YES	YES	YES	YES	YES
Cluster	Country Bank	Country Bank	Country Bank	Country Bank	Country Bank
Mean Dependent Variable	1.832	1.276	0.977	1.787	3.271

Additional analyses

Consequences

Consequences: Interest income

- Banks that lead SLLs earn higher interest income, including fees
- The results are coming from multinational banks in foreign markets

VARIABLES	Full Sample		Multinational Foreign		Home Market	
	<i>ln_interest_income</i> (1)	<i>ln_interest+fee_income_t1</i> (2)	<i>ln_interest_income</i> (3)	<i>ln_interest+fee_income_t1</i> (4)	<i>ln_interest_income</i> (5)	<i>ln_interest+fee_income_t1</i> (6)
<i>sll_lead</i>	0.359*** (0.039)	0.359*** (0.039)	0.323*** (0.045)	0.323*** (0.045)	0.048 (0.087)	0.049 (0.087)
<i>sll_foreign_lead</i>	0.165 (0.116)	0.161 (0.116)	0.309** (0.136)	0.307** (0.135)	0.085 (0.056)	0.084 (0.056)
<i>sustainability_agent</i>	0.365*** (0.046)	0.365*** (0.045)	0.313*** (0.054)	0.313*** (0.054)	-0.077 (0.085)	-0.076 (0.085)
<i>sustainability_agent_foreign</i>					0.011 (0.063)	0.011 (0.063)
<i>rel_perc_t1</i>	0.064 (0.049)	0.063 (0.049)	0.015 (0.045)	0.014 (0.045)	-0.286* (0.163)	-0.285* (0.163)
<i>green_perc_t1</i>	-0.084 (0.079)	-0.083 (0.079)	0.013 (0.080)	0.014 (0.081)	-0.146 (0.151)	-0.143 (0.151)
<i>sll_perc_t1</i>	-0.549*** (0.078)	-0.554*** (0.077)	-0.563*** (0.069)	-0.568*** (0.068)	-0.040 (0.149)	-0.045 (0.150)
Controls	YES	YES	YES	YES	YES	YES
Observations	6,955	6,955	6,056	6,056	876	876
Adjusted R-squared	0.780	0.780	0.776	0.776	0.956	0.956
Country FE	NO	NO	NO	NO	YES	YES
Bank FE	NO	NO	NO	NO	NO	NO
Year FE	NO	NO	NO	NO	NO	NO
Country x Year FE	YES	YES	YES	YES	YES	YES
Bank x Year FE	YES	YES	YES	YES	NO	NO
Cluster	Country Bank	Country Bank	Country Bank	Country Bank	Country Bank	Country Bank

Additional analyses

- Loan performance
 - Using confidential supervisory FR Y-14Q data to investigate portfolio-level performance for a subset of banks
- Breakdown data by loan using the FR Y-14Q Schedule H.1
 - Identify individual loan performance using C&I portfolio
 - Additional analyses of borrower characteristics
 - Additional analyses of bank performance
- Investigate specific case studies
- Impact on ESG ratings
- Robustness:
 - Matching
 - Incorporating more details of home regulation
 - Cross-sectional analyses

Conclusions

- Do banks introduce SLL or participate as sustainability agents to enter new markets?
 - Yes, we find evidence consistent with banks gaining market share and new customers by acting as SLL arrangers or sustainability agents
 - Do banks create new relationships?
 - Yes, banks acting as sustainability agents increase market share by lending to new borrowers
 - Foreign banks are more likely to benefit from new relationships
 - Can de-globalization explain these findings?
 - No, we find evidence of expansion in market share from foreign banks through new lending
- Banks appear to earn higher interest income and do not see significant changes in their ESG scores

Contribution

- **Interesting setting** to examine whether banks innovate in the sustainable space
- Policy relevance showing **potential incentives and tradeoffs** for banks to innovate when they enter new markets

Sample construction

Sample selection process	Remaining observations	
Raw loan-bank level data from 1.1.2006 - 12.31.2023	1128123	bank-tranche level
Filter out government borrowers	1121104	
Drop data before 2014	674927	
Keep only lead arrangers	422516	
Observations before aggregation	418703	
Aggregate to the bank-country-year-level	22948	bank-country-year level
Drop development banks, central banks, and non-bank institutions	21012	
Drop 2022 due to lack of t+1 data	18634	
Keep only observations from 2016-01-01 to 2022-12-31	13727	
Drop singletons, require each group (bank, country, year) to have at least 2 observations	13078	
Final observations	13078	

[Return to descriptives](#)

Descriptive Statistics

Sample distribution by country

Country	Total number of SLL lead banks	Total number of lead banks	Total number of sustainability agent banks	Regulation Year	Sustainable Finance Disclosure Regulation	Has Regulation Data
United States	74	809	15			Yes
Japan	32	95	6	2005		Yes
Taiwan	25	35	2	2008		Yes
Spain	20	103	7	2012	2021	Yes
Germany	20	113	8	2005	2021	Yes
China	18	49	7	2008		Yes
Italy	16	62	7	2007	2021	Yes
France	14	64	7	2003	2021	Yes
United Arab Emirates	13	25	3			Yes
United Kingdom	12	95	5	2006		Yes
Austria	9	19	2		2021	Yes
Australia	9	45	4	2005		Yes
Canada	8	39	5	2012	Yes	Yes
India	7	47		2012		Yes
South Africa	7	14	4	2010		Yes
Switzerland	7	30	2			Yes
South Korea	7	40				Yes
Hong Kong	6	14	2	2016		Yes
Turkey	6	19				Yes
Netherlands	6	35	3	1999	2021	Yes
Kuwait	6	13				Yes
Poland	6	11			2021	Yes
Bahrain	5	12	2			Yes
Russian Federation	5	17				Yes
Qatar	5	17				Yes
Malaysia	5	17	2			Yes
Denmark	5	17	1	2009	2021	Yes
Brazil	4	16		2012		Yes
Indonesia	4	17				Yes
Portugal	4	12		2010	2021	Yes
Singapore	4	10	3	2017		Yes
Greece	4	8				Yes
Sweden	4	12	3	2009	2021	Yes
Norway	4	13	2	2013		Yes
Saudi Arabia	4	21				Yes
Luxembourg	3	20			2021	Yes
Finland	3	16	1	2011	2021	Yes
Mexico	3	11				Yes
Philippines	3	14				Yes
Mauritius	2	4				Yes
Morocco	2	3				Yes
Belgium	2	12	1		2021	Yes
Ireland	2	24		2008	2021	Yes
Thailand	2	13				Yes
Togo	1	2				Yes
Ukraine	1	2				Yes
Albania	1	1				Yes
New Zealand	1	3				Yes
Kazakhstan	1	1				Yes
Jordan	1	5				Yes
Ivory Coast / Cote d	1	4				Yes
Iceland	1	4				Yes
Ghana	1	2				Yes
Czech Republic	1	2				Yes
Colombia	1	10				Yes
Burundi	1	2				Yes
Lebanon	1	5				Yes

Return to descriptives

Descriptives

VARIABLES	count	mean	std	25%	50%	75%
<i>prior_sll_par_exp</i>	13078	0.468	0.499	0	0	1
<i>prior_green_loan_exp</i>	13078	0.633	0.482	0	1	1
<i>total_hhi</i>	13078	0.084	0.077	0.045	0.057	0.09
<i>country_year_sll_indicator</i>	13078	0.49	0.5	0	0	1
<i>loan_leader</i>	13078	0.322	0.467	0	0	1
<i>rel_perc</i>	13078	0.391	0.418	0	0.216	0.835
<i>bank_home_regulation</i>	13078	0.693	0.461	0	1	1
<i>has_refinitiv</i>	13078	0.487	0.5	0	0	1
<i>public</i>	13078	0.336	0.472	0	0	1
<i>sfdr</i>	13078	0.135	0.342	0	0	0
<i>exposure</i>	13078	0.226	0.355	0.005	0.029	0.271
<i>loan_growth</i>	13078	0.794	1.161	-0.129	0.838	2
<i>multinational_home</i>	13078	0.088	0.283	0	0	0
<i>multinational_foreign</i>	13078	0.824	0.381	1	1	1
<i>top_20</i>	13078	0.27	0.444	0	0	1
<i>top_20_foreign</i>	13078	0.261	0.439	0	0	1
<i>top_20_home</i>	13078	0.009	0.095	0	0	0
<i>sll_lead_t1</i>	13078	0.214	0.41	0	0	0
<i>sll_new_origination_t1</i>	13078	0.122	0.327	0	0	0
<i>sustainability_agent_t1</i>	2274	0.171	0.377	0	0	0

[Return to descriptives](#)

Descriptives

VARIABLES	prior_sl par_exp	prior green loan_exp	total hhi	country_year sl_indicator	loan leader	rel_perc	bank_home regulation	has refinitiv	public	sldr	exposure	loan growth	multinational home	multinational foreign	top 20	top 20 foreign	top 20 home	sl_lead t1	sl_new origination t1
prior_green_loan_exp	0.55																		
total_hhi	-0.003	0.004																	
country_year_sl_indicator	0.414	0.205	-0.278																
loan_leader	0.125	0.153	0.134	-0.063															
rel_perc	0.131	0.117	-0.193	0.128	0.111														
bank_home_regulation	0.157	0.31	-0.016	0.017	0.006	0.011													
has_refinitiv	0.102	0.114	-0.03	-0.015	0.074	0.107	0.069												
public	0.09	0.112	-0.003	-0.019	0.075	0.019	-0.206	0.066											
sldr	0.363	0.229	0.007	-0.292	0.028	0.019	0.084	-0.019	0.018										
exposure	-0.346	-0.481	-0.029	0.048	-0.032	-0.115	-0.264	-0.214	-0.078	-0.117									
loan_growth	-0.095	-0.11	0.159	-0.095	-0.043	-0.32	-0.043	-0.079	-0.029	-0.004	0.059								
multinational_home	-0.067	-0.092	-0.018	0.029	0.185	0	-0.053	-0.016	0	-0.028	0.276	-0.121							
multinational_foreign	0.222	0.32	0.029	-0.045	-0.052	0.046	0.19	0.117	0.033	0.084	-0.711	0.091	-0.671						
top_20	0.277	0.318	0.029	-0.04	0.269	0.162	-0.054	0.021	0.285	0.091	-0.331	-0.123	-0.116	0.227					
top_20_foreign	0.272	0.315	0.031	-0.048	0.242	0.148	-0.048	0.019	0.279	0.09	-0.347	-0.112	-0.185	0.275	0.977				
top_20_home	0.04	0.033	-0.008	0.036	0.14	0.071	-0.032	0.012	0.042	0.009	0.057	-0.06	0.31	-0.208	0.158	-0.057			
sl_lead_t1	0.391	0.298	-0.139	0.357	0.237	0.192	0.119	0.053	0.028	0.211	-0.092	-0.23	0.128	-0.017	0.178	0.153	0.124		
sl_new_origination_t1	0.316	0.229	-0.091	0.292	0.189	0.093	0.106	0.028	0.02	0.219	-0.033	-0.151	0.141	-0.056	0.12	0.095	0.119	0.712	
sustainability_agent_t1	0.188	0.145	-0.064	0.166	0.2	0.089	0.09	0.052	0.009	0.137	-0.027	-0.096	0.134	-0.054	0.087	0.057	0.142	0.397	0.398

Return to descriptives

Descriptives

	count	mean	std	25%	50%	75%
<i>escore</i>	6368	0.771	0.236	0.686	0.859	0.929
<i>sscore</i>	6368	0.755	0.169	0.7	0.798	0.869
<i>gscore</i>	6408	0.661	0.216	0.51	0.718	0.841
	<i>escore</i>		<i>sscore</i>			
<i>sscore</i>	0.735					
<i>gscore</i>	0.339		0.403			

[Return to ESG analyses](#)

Descriptives

VARIABLES	count	mean	std	25%	50%	75%
<i>sustainability_agent</i>	13078	0.027	0.161	0	0	0
<i>sustainability_agent_foreign</i>	13078	0.186	0.389	0	0	0
<i>sll_lead</i>	13078	0.177	0.382	0	0	0
<i>sll_foreign_lead</i>	13078	0.497	0.5	0	0	1
<i>prior_sll_par_exp</i>	13078	0.468	0.499	0	0	1
<i>prior_green_loan_exp</i>	13078	0.633	0.482	0	1	1
<i>first_time_market_share_t1</i>	13078	1.764	8.476	0	0	0
<i>rel_market_share_t1</i>	13078	1.03	2.986	0	0	0.758
<i>switch_borr_market_share_t1</i>	13078	1.953	44.25	0	0.001	0.7
<i>portfolio_return_t1</i>	8236	2.74	1.054	2.034	2.741	3.289
<i>sll_portfolio_return_t1</i>	2803	2.503	1.013	1.756	2.532	3.206
<i>new_portfolio_return_t1</i>	6564	2.792	1.044	2.131	2.799	3.349
<i>ln_average_size_t1</i>	8236	4.088	0.869	3.543	4.125	4.657
<i>ln_average_maturity_t1</i>	8236	4.085	0.544	3.863	4.107	4.29
<i>sll_perc_t1</i>	8236	0.134	0.272	0	0	0.116
<i>rel_perc_t1</i>	8236	0.502	0.39	0	0.553	0.882
<i>sscore_t1</i>	980	0.666	0.206	0.529	0.708	0.833
<i>gscore_t1</i>	980	0.614	0.214	0.457	0.648	0.788
<i>esgscore_t1</i>	980	0.635	0.180	0.516	0.667	0.776
<i>sll_lead</i>	980	0.288	0.453	0.000	0.000	1.000
<i>green_lead</i>	980	0.282	0.450	0.000	0.000	1.000
<i>sustainability_agent</i>	980	0.109	0.312	0.000	0.000	0.000
<i>ln_total_bank</i>	980	7.266	2.444	5.352	6.844	9.305
<i>sll_perc</i>	980	0.047	0.122	0.000	0.000	0.012
<i>foreign_perc</i>	980	0.415	0.377	0.000	0.378	0.794
<i>rel_perc</i>	980	0.406	0.332	0.000	0.415	0.703
<i>portfolio_return</i>	980	0.998	0.969	0.103	0.762	1.591
<i>sldr</i>	980	0.087	0.282	0.000	0.000	0.000
<i>bank_pri_sig</i>	980	0.009	0.095	0.000	0.000	0.000
<i>pri_sig</i>	980	0.074	0.263	0.000	0.000	0.000

Return to consequences analyses

Determinants

SLL Lead (Full Table)

VARIABLES	Full Sample	Full Sample	Multinational Foreign	Multinational Foreign	Multinational Home	Multinational Home	Domestic Only	Domestic Only
	<i>sll_lead_t1</i>	<i>sll_lead_t1</i>	<i>sll_lead_t1</i>	<i>sll_lead_t1</i>	<i>sll_lead_t1</i>	<i>sll_lead_t1</i>	<i>sll_lead_t1</i>	<i>sll_lead_t1</i>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<i>sll_lead</i>	0.264*** (0.024)	0.223*** (0.023)	0.255*** (0.029)	0.223*** (0.028)	0.066 (0.058)	-0.101* (0.058)	0.245*** (0.082)	-0.022 (0.100)
<i>sll_foreign_lead</i>	0.088*** (0.015)	0.050*** (0.015)	0.080*** (0.018)	0.030*** (0.016)	0.150*** (0.041)	0.146*** (0.045)		
<i>prior_sll_participate</i>	0.203*** (0.018)	0.195*** (0.019)	0.187*** (0.018)	0.178*** (0.019)	0.220*** (0.043)	0.236*** (0.049)	0.202*** (0.052)	0.151*** (0.027)
<i>prior_sll_foreign_participate</i>	0.056*** (0.016)	0.060*** (0.016)	0.061*** (0.018)	0.055*** (0.019)	0.097** (0.040)	0.129** (0.040)		
<i>total_hhi</i>	0.311* (0.164)	0.230 (0.166)	0.227 (0.172)	0.184 (0.174)	1.018** (0.491)	0.686 (0.548)	0.011 (0.303)	-0.230 (0.402)
<i>country_year_sll_indicator</i>	-0.014 (0.025)	-0.005 (0.026)	-0.013 (0.029)	-0.006 (0.030)	0.051 (0.069)	0.141** (0.063)	-0.020 (0.030)	0.014 (0.033)
<i>loan_loader</i>	0.155*** (0.024)	0.130*** (0.021)	0.163*** (0.027)	0.152*** (0.022)	0.001 (0.040)	0.032 (0.071)	0.032 (0.049)	-0.032 (0.076)
<i>rel_parc</i>	0.002 (0.016)	-0.012 (0.016)	-0.003 (0.017)	-0.017 (0.017)	0.063 (0.053)	0.016 (0.065)	0.007 (0.011)	-0.018 (0.020)
<i>bank_home_regulation</i>	0.028** (0.012)	-0.020 (0.051)	0.028** (0.012)	-0.031 (0.047)	0.001 (0.188)	-0.028 (0.180)	0.063 (0.344)	0.116 (0.335)
<i>has_refinitiv</i>	0.005 (0.010)	0.004 (0.015)	0.001 (0.011)	-0.016 (0.012)	0.019 (0.018)	0.063 (0.071)	0.008 (0.016)	0.037 (0.068)
<i>public</i>	-0.013 (0.009)	-0.017 (0.010)	-0.017 (0.010)	-0.017 (0.018)	0.004 (0.018)	0.004 (0.014)		
<i>loan_loadershhi</i>	-0.601*** (0.144)	-0.497*** (0.140)	-0.651*** (0.152)	-0.569*** (0.139)	-1.112*** (0.214)	-0.442 (0.604)	0.491 (0.513)	0.916 (0.746)
<i>sldr</i>	-0.067* (0.034)	-0.061* (0.031)	-0.091* (0.047)	-0.090** (0.040)	0.123 (0.077)	0.102 (0.094)	-0.059 (0.102)	-0.058 (0.088)
<i>loan_growth</i>	-0.020** (0.005)	-0.023** (0.005)	-0.034*** (0.005)	-0.027*** (0.005)	0.024 (0.018)	0.052** (0.019)	-0.002 (0.005)	0.006 (0.005)
<i>green_loan_lead</i>	0.125*** (0.023)	0.111*** (0.025)	0.119*** (0.025)	0.101*** (0.025)	0.101*** (0.044)	0.086** (0.037)	0.167* (0.093)	0.127 (0.083)
<i>multinational_foreign</i>	-0.011 (0.017)	-0.031* (0.018)						
<i>multinational_home</i>	0.072*** (0.019)	0.074*** (0.028)						
<i>exposure</i>	0.010 (0.019)	0.053** (0.025)	0.016 (0.021)	0.106*** (0.035)	-0.022 (0.050)	-0.221** (0.096)		
<i>top_20_foreign</i>	0.023* (0.014)	0.028* (0.015)						
<i>top_20_home</i>	0.110*** (0.026)	0.099*** (0.035)						
<i>top_20</i>			0.030** (0.014)	0.027* (0.014)	0.132*** (0.030)	0.032 (0.091)		
Observations	10,522	10,522	8,290	8,290	869	869	1,094	1,094
Adjusted R-squared	0.424	0.413	0.394	0.391	0.591	0.563	0.390	0.272
Country FE	YES	YES	YES	YES	YES	YES	YES	YES
Bank FE	NO	YES	NO	YES	NO	YES	NO	YES
Year FE	YES	YES	YES	YES	YES	YES	YES	YES
Mean <i>sll_lead_t1</i>	0.204	0.204	0.204	0.204	0.375	0.375	0.066	0.066

Return to determinants analyses

Determinants

SLL New Originations

VARIABLES		Multinational Foreign Markets			Home Market	
		sll_lead_t1			sll_lead_t1	
		(1)	(2)	(3)	(4)	(5)
Market	total_hhi	0.402*** (0.145)			0.089 (0.229)	
	country_year_sll_indicator	0.053*** (0.026)			0.013 (0.039)	
Bank	loan_leader	0.197*** (0.023)	0.217*** (0.024)	0.212*** (0.021)	0.059 (0.036)	0.002 (0.041)
	loan_leader×hhi	-0.739*** (0.130)	-0.933*** (0.160)	-0.953*** (0.129)	-0.162 (0.335)	0.032 (0.466)
	rel_parc	0.006 (0.013)	0.025** (0.013)	0.027* (0.014)	-0.071*** (0.021)	-0.050*** (0.015)
	exposure	0.170*** (0.046)	0.151*** (0.040)	0.278*** (0.055)	-0.109*** (0.038)	-0.117*** (0.041)
	has_refinitiv	0.101*** (0.026)	0.208*** (0.025)		-0.037 (0.103)	-0.019 (0.063)
	loan_growth	-0.028*** (0.004)	-0.031*** (0.004)	-0.036*** (0.004)	0.014** (0.006)	0.022*** (0.008)
Regulation/initiatives	prv_sig	0.014 (0.030)	-0.003 (0.035)		0.015 (0.088)	0.031 (0.071)
	bank_home_regulation	-0.010 (0.046)	-0.038 (0.051)		0.167 (0.144)	
	sldr	0.001 (0.051)	0.005 (0.043)		0.054 (0.070)	0.171*** (0.052)
ESG experience	prior_sll_par_exp	0.104*** (0.020)	0.102*** (0.021)		0.297*** (0.045)	0.219*** (0.037)
	prior_green_loan_exp	-0.038** (0.018)	-0.054*** (0.018)		0.104*** (0.036)	0.083** (0.037)
	top_20	-0.010 (0.038)	0.006 (0.042)		-0.026 (0.146)	-0.001 (0.123)
Observations		10,687	10,623	9,926	2,243	2,209
Adjusted R-squared		0.363	0.443	0.465	0.503	0.607
Country FE		YES	NO	NO	YES	NO
Bank FE		YES	YES	NO	YES	YES
Year FE		YES	NO	NO	YES	NO
Country × Year		NO	YES	YES	NO	YES
Bank × Year		NO	NO	YES	NO	NO
Cluster		Country Bank	Country Bank	Country Bank	Country Bank	Country Bank
Mean sll_lead_t1		0.211	0.211	0.211	0.230	0.230

Return to determinants analyses

Determinants

Sustainability Agents

VARIABLES	Full Sample			Multinational Foreign Markets			Home Market	
	sustainability_agent_t1			sustainability_agent_t1			sustainability_agent_t1	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Market	total_hhi	-0.734 (0.030)		-0.756 (0.030)			-0.884 (1.180)	
	country_year_slf_indicator	-0.012 (0.020)		-0.007 (0.031)			0.094 (0.080)	
Bank	loan_leader	0.156*** (0.030)	0.151*** (0.040)	0.164*** (0.044)	0.145*** (0.037)	0.125*** (0.038)	0.134*** (0.043)	-0.175 (0.141)
	loan_leader:hhi	-0.559 (0.340)	-0.375 (0.423)	-0.512 (0.475)	-0.532 (0.436)	-0.149 (0.487)	-0.251 (0.524)	1.264 (1.109)
	rel_psrc	0.014 (0.019)	0.027 (0.020)	0.032 (0.025)	0.011 (0.010)	0.029 (0.022)	0.034 (0.025)	-0.183* (0.098)
	exposure				0.412*** (0.094)	0.439*** (0.096)	0.525*** (0.118)	-0.123 (0.127)
	loan_growth	-0.006 (0.009)	-0.005 (0.009)	0.001 (0.009)	-0.019** (0.009)	-0.016 (0.011)	-0.014 (0.010)	0.067** (0.028)
Regulation/initiatives	pri_sig	0.008 (0.053)	-0.008 (0.041)		0.032 (0.083)	-0.001 (0.067)		-0.143 (0.187)
	bank_home_regulation	-0.031 (0.070)	0.002 (0.081)		0.001 (0.059)	-0.015 (0.070)		-0.256* (0.147)
	slfr	-0.197*** (0.060)	-0.226*** (0.078)		-0.213*** (0.075)	-0.165 (0.101)		0.034 (0.080)
ESG experience	prior_slf_psr_exp	-0.009 (0.037)	-0.030 (0.035)		-0.035 (0.039)	-0.055 (0.040)		0.019 (0.064)
	prior_green_loan_exp	0.077* (0.039)	0.063* (0.037)		0.045 (0.044)	0.049 (0.049)		-0.050 (0.074)
	top_20_foreign	-0.075 (0.064)	-0.079 (0.065)	-0.034 (0.090)				
Bank type	top_20_home	-0.034 (0.094)	-0.037 (0.092)					
	multinational_foreign	-0.229*** (0.069)	-0.239** (0.089)	-0.293*** (0.053)				
	multinational_home	0.040 (0.030)	0.036 (0.053)					
	top_20				-0.009 (0.052)	-0.011 (0.054)		-0.296** (0.110)
	Observations	2,724	2,720	2,483	2,238	2,229	2,122	452
	Adjusted R-squared	0.228	0.242	0.236	0.192	0.203	0.197	0.423
	Country FE	YES	NO	NO	YES	NO	NO	YES
	Bank FE	YES	YES	NO	YES	YES	NO	YES
	Year FE	YES	NO	NO	YES	NO	NO	YES
	Country x Year	NO	YES	YES	NO	YES	YES	NO
	Bank x Year	NO	NO	YES	NO	NO	YES	NO
	Cluster	Country Bank	Country Bank	Country Bank	Country Bank	Country Bank	Country Bank	Country Bank
	Mean sustainability_agent_t1	0.192	0.192	0.192	0.172	0.172	0.172	0.28

Return to determinants analyses

Determinants

ESG Scores

VARIABLES	Full Sample							
	(1)	(2)	(3)	sll_lead_t1		(6)	(7)	(8)
esgscore	-0.125 (0.080)				-0.159 (0.096)			
escore		0.133** (0.055)				0.076 (0.061)		
sascore			-0.085 (0.087)				-0.095 (0.083)	
gscore				-0.023 (0.040)				-0.023 (0.040)
Control Variables	YES	YES	YES	YES	YES	YES	YES	YES
Observations	7,180	7,164	7,178	7,180	7,127	7,111	7,125	7,180
Adjusted R-squared	0.396	0.396	0.396	0.395	0.405	0.405	0.405	0.395
Country FE	YES	YES	YES	YES	NO	NO	NO	NO
Bank FE	YES	YES	YES	YES	YES	YES	YES	YES
Year FE	YES	YES	YES	YES	NO	NO	NO	NO
Country x Year FE	NO	NO	NO	NO	YES	YES	YES	YES
Cluster	Bank Country	Bank Country	Bank Country	Bank Country	Bank Country	Bank Country	Bank Country	Bank Country
Mean Dependent Variable	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237

Return to determinants analyses

Determinants

Market Shares

VARIABLES	Full Sample				Multinational Foreign Sample				Home Market Sample
	market_share_t2 (1)	first_time_market_share_t2 (2)	rel_market_share_t2 (3)	switch_horr_market_share_t2 (4)	market_share_t2 (5)	first_time_market_share_t2 (6)	rel_market_share_t2 (7)	switch_horr_market_share_t2 (8)	market_share_t2 (9)
all_lead	0.554*** (0.162)	0.393 (0.278)	0.366*** (0.108)	2.345 (1.694)	0.410*** (0.143)	0.218 (0.321)	0.297*** (0.097)	2.616 (1.918)	0.075 (0.335)
all_foreign_lead	1.250*** (0.313)	1.280*** (0.531)	0.660*** (0.179)	1.870*** (0.940)	0.789** (0.403)	-0.441 (0.570)	0.431** (0.196)	0.616 (1.045)	-0.209 (0.425)
sustainability_agent	1.515*** (0.373)	2.284*** (0.875)	1.054*** (0.219)	1.943 (1.588)	1.401*** (0.424)	2.021** (0.761)	0.721*** (0.202)	2.359 (1.772)	-0.196 (0.446)
sustainability_agent_foreign									-0.116 (0.720)
Observations	11,420	11,420	11,420	11,420	9,026	9,026	9,026	9,026	2,250
Adjusted R-squared	0.329	0.168	0.327	0.157	0.291	0.108	0.316	0.168	0.562
Controls	YES	YES	YES	YES	YES	YES	YES	YES	YES
Country FE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank FE	NO	NO	NO	NO	NO	NO	NO	NO	YES
Year FE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank x Year	YES	YES	YES	YES	YES	YES	YES	YES	NO
Country x Year	YES	YES	YES	YES	YES	YES	YES	YES	YES
Cluster	Country Bank	Country Bank	Country Bank	Country Bank	Country Bank	Country Bank	Country Bank	Country Bank	Country Bank
Mean Dependent Variable	2.086	1.764	1.030	1.953	1.832	1.276	0.977	1.787	3.271

Return to consequences analyses

Determinants

Performance

VARIABLES	Full Sample		
	<i>portfolio_return_t1</i>	<i>new_portfolio_return_t1</i>	<i>sll_portfolio_return_t1</i>
	(1)	(2)	(3)
<i>sll_lead</i>	-0.004 (0.033)	-0.043 (0.036)	0.039 (0.067)
<i>sll_foreign_lead</i>	0.027 (0.056)	0.041 (0.057)	0.077 (0.086)
<i>sustainability_agent</i>	0.024 (0.028)	0.062 (0.046)	0.033 (0.043)
<i>loan_leader</i>	0.035 (0.037)	0.030 (0.029)	-0.011 (0.045)
<i>rel_perc</i>	-0.064** (0.029)	0.000 (0.026)	-0.035 (0.041)
<i>loan_leader×hhi</i>	-0.268 (0.339)	-0.296 (0.340)	0.218 (0.478)
<i>multinational_foreign</i>	-0.029 (0.035)	0.032 (0.037)	0.000 (0.043)
<i>top_20_foreign</i>	0.078 (0.053)	0.100* (0.053)	-0.020 (0.078)
<i>loan_growth</i>	0.006 (0.010)	0.003 (0.010)	-0.004 (0.011)
<i>sll_perc_t1</i>	-0.154* (0.078)	-0.244*** (0.088)	
<i>ln_average_maturity_t1</i>	0.056* (0.029)	0.060** (0.030)	0.054 (0.044)
<i>ln_average_size_t1</i>	-0.055*** (0.018)	-0.024 (0.024)	0.023 (0.031)
<i>rel_perc_t1</i>	-0.103*** (0.038)		0.103 (0.068)
<i>green_perc_t1</i>	-0.267** (0.106)		-0.172 (0.170)
<i>sll_perc_t1×sll_lead</i>	-0.006 (0.083)	0.171** (0.081)	
<i>rel_perc_t1×sll_lead</i>			-0.113 (0.099)
Observations	6,955	5,389	2,483
Adjusted R-squared	0.771	0.729	0.824
Country FE	NO	NO	NO
Bank FE	NO	NO	NO
Year FE	NO	NO	NO
Country x Year FE	YES	YES	YES
Bank x Year FE	YES	YES	YES

Return to consequences analyses

Determinants

ESG Rating

VARIABLES	Full Sample			
	<i>escore_t1</i> (1)	<i>sscore_t1</i> (2)	<i>gscore_t1</i> (3)	<i>esgscore_t1</i> (4)
<i>sll_lead</i>	0.002 (0.016)	-0.024** (0.010)	-0.001 (0.014)	-0.018** (0.009)
<i>green_lead</i>	-0.008 (0.012)	-0.000 (0.008)	-0.016 (0.012)	-0.008 (0.007)
<i>sustainability_agent</i>	-0.018 (0.017)	-0.046*** (0.013)	-0.017 (0.016)	-0.035*** (0.011)
<i>ln_total_bank</i>	0.013** (0.006)	-0.000 (0.005)	-0.010 (0.006)	-0.001 (0.004)
<i>sll_perc</i>	-0.051 (0.052)	0.038 (0.037)	0.028 (0.049)	0.025 (0.031)
<i>foreign_perc</i>	0.022 (0.020)	0.007 (0.012)	-0.007 (0.017)	0.007 (0.010)
<i>rel_perc</i>	0.004 (0.021)	-0.003 (0.013)	0.011 (0.021)	0.003 (0.011)
<i>portfolio_return</i>	-0.013** (0.007)	-0.011** (0.004)	-0.003 (0.007)	-0.009** (0.004)
<i>sldr</i>	-0.022 (0.022)	-0.024 (0.016)	-0.020 (0.021)	-0.024* (0.014)
<i>pri_sig</i>	-0.019 (0.032)	0.037 (0.024)	-0.069 (0.062)	-0.007 (0.024)
Observations	975	980	980	980
Adjusted R-squared	0.866	0.883	0.758	0.890
Bank FE	YES	YES	YES	YES
Year FE	YES	YES	YES	YES
Cluster	Bank	Bank	Bank	Bank

Return to consequences analyses