

Do Firms Have A Preference Order While Repaying Lenders? Relationship vs Transaction Banking

Nitin Vishen

Indian School of Business

nitin_vishen@isb.edu

AFA Poster Session (2022)



Objective of the study

- Repayment order of Secured Relationship Lenders vs Secured Transaction Lenders

Literature Review

- Relationship banker knows more about the the firm than a transaction banker, so possibilities of default should be lower (Boot (2000), Bharath et. al. (2011), Bolton et. al. (2016))
- However, Relationship Banking can also create soft-budget-constraint problem, causing higher defaults (Hu and Varas (2021))

Research Gap

When a firm has borrowed from a relationship lender and a transaction lender, and it is in distress, and let's say it has enough to repay one out of the two lenders. In such a case, Firm's repayment behaviour towards the two types of lenders is unclear.

Relationship

Three Definitions

1 Frequency of interaction

- Measure: Number of Loans \implies frequency of information collection
- *Boot (2000)*

2 Depth of Relationship

- Measure: Loan Amount \implies firm borrows more
- *Agarwal, Chomsisengphet, Liu, Song, and Souleles (2018)*

3 Physical proximity

- Measure: Distance between Headquarters \implies proxy for ease of monitoring
- *Agarwal and Hauswald (2010), Beck, Ongena, and Enderiz Yuncu (2019)*

My Definition

Among the lenders of a firm, a lender with above median relationship strength for all the three criteria (median values calculated within-firm-year) is called a **Relationship Lender** for that firm.

Location: India

Events:

- 2008: Global Financial Crisis \implies RBI Response: Regulatory Forbearance
- 2015: End of Forbearance + Asset Quality Review
- 2015-19: Massive Defaults Unearthed

Regulatory Forbearance (2008-14):

Loan accounts are allowed to retain their asset classification upon restructuring

Who faces more default?

Relationship vs Transaction Banking

Consider a two-period model:

- 1 $t = 0$: Regulatory Forbearance (2008-14)
- 2 $t = 1$: Vigilant/Strict Regulator (2015-19)

Strict regulator would force the banks to disclose the true quality of their loan books (*Agarwal, Lucca, Seru, and Trebbi (2014)*)

Difference in differences:

$$Default_{fjt} = \beta_0 + \beta_1 Relationship_{fj} + \beta_2 Relationship_{fj} * Post_t + \gamma_{ft} + \delta_j + \varepsilon_{fjt}$$

Firm x Time and Lender Fixed effects allow for within-firm across lender comparison

Summary Result

Default: Non-repayment of dues for 90 days

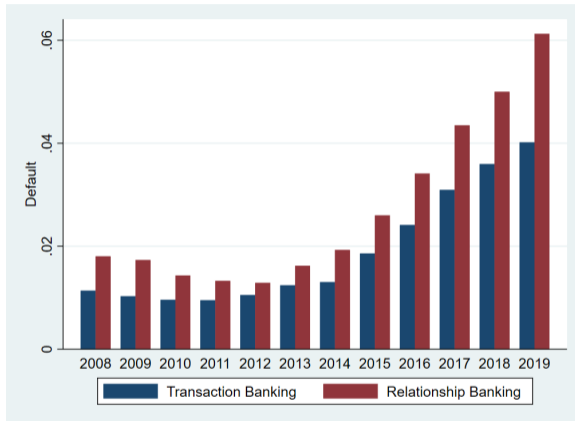


Figure: Firms are 50% more likely to default on Relationship Lenders (3%) compared to Transaction Lenders (2%)

Data and Results

Data

- Secured corporate loans data collected from the website of the Ministry of Corporate Affairs, Government of India
- Approximately 25,000 firms and 376 lenders between 2008 and 2019
- The loans dataset is merged with defaults data obtained from a credit bureau (TransUnion CIBIL).

Results

- Difference-in-differences analysis with *Firm \times Time* and *Lender fixed effects* while considering 2015 as the year of intervention.
- I find that firms have a *1.76 percentage points higher increase in default rate for relationship lenders* from the pre-period to the post-period, compared to the rise for transaction lenders.
- This rise in default rate is *72 percent of the pre-period default rate* on transaction lenders, making it economically meaningful.

- 1 Alternate Measures
 - Relationship Definition: 75 percentile instead of Median
 - Instrumental Variable: Distance
 - Endogenous relationship formation during forbearance: Subsample from pre-forbearance
- 2 Outstanding Loan Amount
 - Control in regression
 - Subsample of firms which only have similar outstanding loans for both lender types
- 3 Idiosyncratic Lender Shocks
 - Negative Bank Lending Shock (Amiti(2011))
 - Other Lender Shocks: Lender \times Time fixed effects
- 4 Placebo Tests
 - Random allocation of firm-lender pairs to relationship
 - 2011 as year of intervention
 - Well-capitalized vs Under-capitalized Banks
- 5 Heterogeneous Effects
 - Wilful vs Non-wilful
 - Distressed vs Healthy Firms

- 1 Do Relationship banks help firms in repaying loans from other lenders?
 - *Help* : Relationship lender makes a new loan to the firm or restructures an existing one, while the firm pays off a running loan from a transaction lender simultaneously
 - I find that YES! Relationship lenders do help firms.
- 2 Investment outcomes of these firms
 - Help receiving firms invest in risky investments
- 3 Profitability outcomes of Banks
 - Banks who face more defaults suffer higher losses
 - These banks reduce lending; even to healthy firms

Conclusion and Further Analysis

Things ToDo:

- ① Control for other Loan Terms
- ② Check do firms feel less threatened by relationship lenders

Concluding Remarks:

- ① Firms have a preference order while repaying lenders
- ② Relationship lenders fall lower in that preference order
 - Firms are more likely to default on relationship lenders than transaction lenders
- ③ Relationship banking can create a soft-budget constraint
 - By helping firms in distress
 - These firms are likely to invest in high risk projects
 - Such firms expect continuation of lending from relationship lenders and prioritize transaction lenders in debt repayment