Commitment in Debt Financing: The Role of Creditor Dispersion

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This paper

- ► I test an important idea in finance:

 When firms have many creditors, this complicated debt structure can help to raise funding in debt markets
- ► How? Mechanism highlighted by theorists (e.g., Bolton & Scharfstein, JPE '96; Diamond, JF '04):
 - Dispersed creditors face coordination problems that make defaults and renegotiations costly or difficult
 - ⇒ Firms can have stronger incentives to repay their debt and avoid contract violations in the first place
 - ⇒ Creditors will become more willing to lend money to these firms
- Q. How relevant in practice is this theoretical insight? What are the implications of this idea for the design of bankruptcy/reorganization law (e.g., Chapter 11)?
- Key contributions: I provide evidence that
 - 1. This role of creditor dispersion as a commitment device is relevant and important in practice
 - 2. Legal arrangements designed to facilitate creditor coordination, a main goal of reorganization law in many countries, can actually limit the ability of many firms to borrow

Why is this important?

- 1. Dispersed creditors and their coordination problems are commonly viewed as inefficient as they increase the cost of financial distress
 - ⇒ This idea suggests that these ex-post costs can have important ex-ante benefits by allowing firms to commit to repay their debt and borrow more!
- 2. A typical goal of reorganization law is to facilitate creditor coordination and reduce the cost of financial distress
 - ⇒ This idea suggests that reforms designed to achieve this goal can also limit firms' ability to commit and borrow using creditor dispersion!

Empirical setting

- ▶ I label these adverse effects of reforms as the commitment channel
 ⇒ The main goal of my analysis is to isolate the economic importance of this channel
- To do so, one needs to analyze a reform that <u>only</u> facilitates creditor coordination, unlike most bankruptcy laws and reforms
 - ⇒ As such a unique natural experiment, I use a reform introducing a voting rule into out-of-court corporate debt restructurings in Korea
- ➤ Without this voting rule (prior to the reform), dissenting creditors could not be compelled to participate in a restructuring plan
 - → This absence of voting rule can lead to significant creditor coordination problems
 - However, under this voting rule, a plan of restructuring approved by 75% of creditors becomes binding even to dissenting creditors
 - ⇒ A classical solution to creditor coordination problems in both theory and practice
- ► Other advantages of this empirical setting:
 - 1. The availability of audited financial data on small, private firms
 - \Rightarrow Allows me to precisely measure creditor dispersion and borrowing in a broad sample of firms
 - 2. South Korea has strong creditor protection by courts relative to many other countries (Djankov et al., JPE '08)
 - ⇒ Allows me to examine if these effects are still important even in a legal system with strong creditor protection, where theory predicts commitment problems should be less severe

Identification strategy

- ► I contrast the effects of this reform between firms with high and low exposure to the commitment channel
 - ⇒ Presents a theoretical framework predicting which firms should rely more on creditor dispersion as a commitment device, and thus, be more affected by the commitment channel

Theoretical framework

- 1. The commitment channel should have stronger effects on firms with high value of commitment (e.g., borrowers with irreplaceable human capital)
 - ⇒ As these factors are hard to observe, I introduce a revealed preference approach that uses creditor dispersion prior to the reform as an indirect measure of the value of commitment
- 2. Creditor dispersion works as a double-edged sword: on the one hand, it benefits firms by establishing a commitment to avoid strategic defaults; on the other hand, it also makes restructurings costlier even when defaults are due to adverse liquidity shocks beyond firms' control (liquidity defaults)
 - ⇒ As firms with low liquidity default risk have limited exposure to this cost of dispersed creditors, these firms should rely more on creditor dispersion as a commitment device

Empirical results

- ► Guided by this framework, I analyze if the reform has significant differential effects for firms with (i) high creditor dispersion and (ii) low liquidity default risk (a triple interaction term)
- Key findings:
- 1. After the reform, firms with high exposure to the commitment channel experience a decrease in their borrowing
- \Rightarrow \$\dagger\$ 1.6 pp \approx 40-80 percent of the effect of 1 s.d. change in size, profitability, or tangibility, suggesting its economic significance
- 2. These firms rely less on creditor dispersion following the reform
- ⇒ Consistent with a reduction in the effectiveness of creditor dispersion as a commitment device
- 3. These effects are concentrated among firms lacking easy-to-liquidate assets ⇒ This finding supports the view that these lowered liquidation values limit courts' ability to protect creditors, and thus, create a need for additional commitment mechanisms, such as creditor dispersion