

Sophisticated Borrowing Constraints and Macroeconomic Dynamics

BY EBSIM, LIAN, MA, OTTONELLO & PEREZ

Discussion by **Thomas Drechsel** (University of Maryland & NBER)

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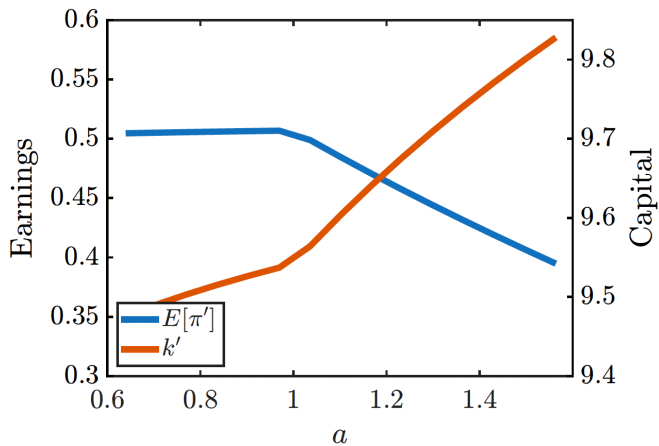
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MAIN IDEA OF THE PAPER

- ▶ **Previous research:** covenants are widespread in US debt contracts
 - ▶ Shown by corporate finance research
 - ▶ Incorporated in macro models as borrowing constraints $\rightarrow b \leq \theta\pi$
- ▶ **This paper:**
 - ▶ Makes the **contingent control aspect of covenants** explicit in a macro model
 - ▶ Model matches dynamics of capital and earnings around covenant breaches
- ▶ In my view, this is a significant contribution

SOME INTUITION

EARNINGS AND CAPITAL UNDER MANAGER CONTROL



a is the desire to divert capital for unproductive use

MY COMMENTS

1. Dynamics of debt and leverage
2. Transition back to non-violation state
3. Why earnings?
4. A defense of “hard” constraints

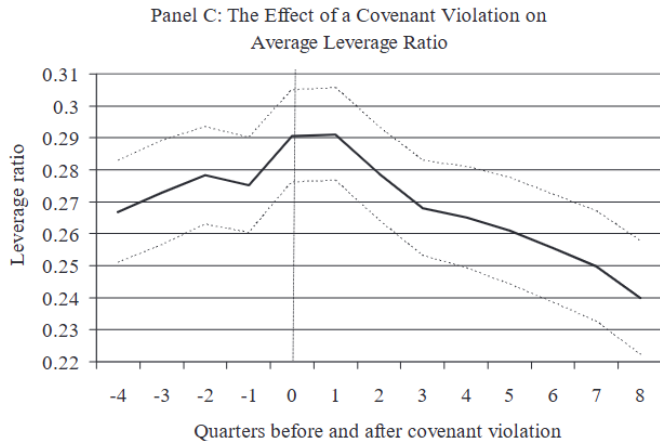
COMMENT 1: DYNAMICS OF DEBT AND LEVERAGE

- ▶ In the model, debt repayment is not accelerated in the violation state
 - ▶ Follows from assumptions that simplify the creditor problem

- ▶ Seems to be at odds with evidence in [Roberts and Sufi \(2009\)](#):

“Net debt issuing activity experiences a sharp and persistent decline following debt covenant violations, when creditors use their acceleration and termination rights...”

COMMENT 1: DYNAMICS OF DEBT AND LEVERAGE



Source: [Roberts and Sufi \(2009\)](#), Figure 1

COMMENT 1: DYNAMICS OF DEBT AND LEVERAGE

- ▶ The paper focuses almost exclusively on capital and earnings
- ▶ It would be helpful to show the dynamics of debt and leverage in data and model
- ▶ I suspect those might look different from each other
- ▶ Other variables would be interesting as well, e.g. the price of debt
- ▶ *Broader question: can the model match a wider set of empirical facts?*

COMMENT 2: TRANSITION BACK TO NON-VIOLATION STATE

- ▶ The transition from violation to normal state is assumed to be exogenous
 - ▶ Otherwise creditors would pick $\tau' = 0$ and “jump” back to non-violation state
- ▶ Alternative suggestion: allow the creditor to only gradually adjust τ' ?
 - ▶ E.g. introduce convex adjustment cost for τ only for creditors
- ▶ Looks expositionally less ad hoc and we can tell stories around it
 - ▶ It may take time for creditors to “clean up the mess”

COMMENT 3: WHY EARNINGS?

- ▶ The constraints are labeled as “sophisticated”
- ▶ But would they be chosen optimally?
- ▶ In particular, would creditors choose earnings as the best trigger variable?
 - ▶ My conjecture: they would prefer a profit measure that subtracts investment
- ▶ Perhaps outside the scope of the paper, but a fascinating question

COMMENT 4: A DEFENSE OF “HARD” CONSTRAINTS

- Where am I coming from?

$$b \leq \theta\pi \quad \text{vs.} \quad b \leq \phi qk$$

- Drechsel (2023): implications for macro fluctuations generated by different shocks
- Drechsel and Kim (2024): implications for pecuniary externalities

COMMENT 4: A DEFENSE OF “HARD” CONSTRAINTS

Firm financing is complex ...

- ▶ collateral
- ▶ covenants
- ▶ credit ratings
- ▶ equity frictions
- ▶ ...

COMMENT 4: A DEFENSE OF “HARD” CONSTRAINTS

Firm financing is complex ...

- ▶ collateral earnings matter (*debt secured with blanket lien*)
- ▶ covenants earnings matter (*earnings-based covenants*)
- ▶ credit ratings earnings matter (*earnings used to compute ratings*)
- ▶ equity frictions earnings matter (*valuation with earnings multiples*)
- ▶ ...

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existing papers

earnings matter for debt in many ways
⇒ capture this as simply as possible

COMMENT 4: A DEFENSE OF “HARD” CONSTRAINTS

- ▶ Modeling contingent control in a macro model is difficult
- ▶ It is impressive that this paper shows us how to do it
- ▶ As macroeconomists we need to abstract from many details
- ▶ “Hard” earnings-based borrowing constraints:
 - ▶ Might stand in for other aspects of debt left out of the model
 - ▶ Have been shown to match a wide set of empirical facts
 - ▶ Are very convenient to use

CONCLUSION

- ▶ A fantastic paper that delivers a lot of insight
- ▶ My comments:
 1. Confront model with wider set of empirical facts, e.g. dynamics of debt
 2. Consider adjustment costs in transition back to non-violation state
 3. Think about why earnings are the trigger variable (maybe in the next paper)
 4. The existing approach still has a lot to offer

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- ROBERTS, M. R. AND A. SUFI (2009): “Control Rights and Capital Structure: An Empirical Investigation,” *The Journal of Finance*, 64, 1657–1695.