

# Banking Regulation and Supervision: Paper Discussion by Stijn Van Nieuwerburgh

Regulatory Changes and the Cost of Capital for Banks<sup>1</sup>  
The Value of Regulators as Monitors: Evidence from Banking<sup>2</sup>

<sup>1</sup>Anna Kovner and Peter Van Tassel

<sup>2</sup>Emilio Bisetti

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# Kovner and Van Tassel

- ▶ Computes cost of equity capital for banks
- ▶ High in crisis, much lower after Dodd-Frank Act, especially for largest banks
- ▶ Intuition: Dodd-Frank Act lowered bank risk-taking, making bank equity safer
- ▶ However, they also find a higher WACC for banks after Dodd-Frank Act passage, including for the largest banks
- ▶ Consistent with implications of model with tighter regulatory capital constraints post Dodd-Frank Act (Elenev, Landvoigt, Van Nieuwerburgh)

$$WACC = \mathbb{E}(Return^{Equity}) \times \frac{E}{A} + \mathbb{E}(Return^{Debt}) \times \frac{D}{A}$$

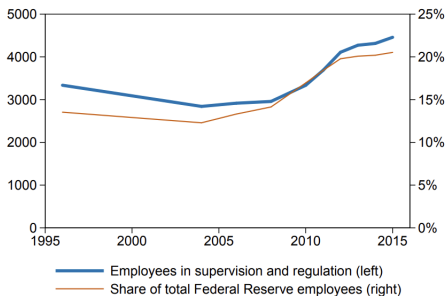
- ▶ But, lower cost of equity capital doesn't always mean higher welfare! Tighter capital requirements also imply:
  - ▶ Lower output and capital investment
  - ▶ Higher macro-economic volatility due to lower risk absorption capacity of financial sector

# Kovner and Van Tassel

- ▶ There are well known difficulties with computing expected equity returns
- ▶ Particularly pronounced over short windows (eg: Financial crisis or SCAP period)
- ▶ Robustness to other factor models is a good start
- ▶ Also explore factor models where factors are based on bank stock returns only
- ▶ More promising: use options data to compute both equity risk premium and individual betas (Martin 2007, Martin and Wagner 2017, Buss and Vilkov 2012)

- ▶ Banks between \$150-500 million in assets are exempted from onerous financial filings requirement
- ▶ Assumption: Fed is devoting fewer resources to supervise them. Would be nice to provide direct evidence on this
- ▶ Finds that market-to-book ratio of assets decreases 1% and market-to-book ratio of equity falls 7% relative to those (just) above threshold
- ▶ Intuition: Shareholders now need to spend more resources on auditing/consulting to prevent rent extraction by management, especially in riskier banks
- ▶ Like the experiment and the supporting direct evidence

- ▶ Fed is spending large amount of resources on supervision



Source: Eisenbach, Lucca, and Townsend 2017

- ▶ It thereby provides a valuable public good
- ▶ Do bank shareholders pay high enough fees for supervisory services they "consume"? Only BHCs with \$50 billion in assets are charged a supervisory fee by the Fed

## Suggestions for both papers

- ▶ Post hoc ergo propter hoc
  - ▶ This is a period with major changes in regulatory capital rules (Basel III) that interact with changes in supervision. Is Bistetti paper just picking up supervisory changes?
  - ▶ The period also had major cyclical fluctuations (eg: housing boom and bust). This makes it difficult to cleanly estimate cost of capital and isolate effect of capital regulation (Kovner and Van Tassel)
- ▶ Use later changes to regulatory and supervisory framework as out-of-sample tests
  - ▶ 2018 Economic Growth, Regulatory Relief, and Consumer Protection Act
  - ▶ FR Y-9C threshold changed from \$500 million to \$1 billion, and from \$1 billion to \$3 billion effective March 2015 and September 2018, respectively
- ▶ Papers show that tighter capital regulation and stricter supervision are good for banks' shareholders, especially for large banks
  - ▶ Could these results reflect comparative advantage in regulatory compliance (economies of scale) for large banks?

# Conclusion

- ▶ Macro-economic burden of regulation not captured
- ▶ Coffey, McLaughlin, and Peretto 2016 estimate the cumulative cost of federal regulation has dampened economic growth by approximately 0.8 percent per year since 1980
- ▶ Suggests we need a macro-economic framework/general equilibrium analysis to study all parties affected by regulation and supervision including
  - ▶ Financial Intermediaries
  - ▶ Their borrowers (Firms and households)
  - ▶ Their lenders (Depositors and debt holders)
  - ▶ Government(Explicit and implicit bailout guarantees)