

Discussion of "Evergreening" by Miguel Faria-e-Castro, Pascal Paul, and Juan M. Sanchez

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Summary

- 1. Studies the phenomenon of "evergreening" i.e., extending loans on favorable terms to firms in distress at U.S. banks
- 2. Shows banks with concentrated exposures give more credit at lower rates to firms close to default
- 3. What is the **friction**? The friction is **costly corporate insolvency** (Becker and Ivashina 2022) which makes restructuring less attractive to banks and more willing to sustain distressed firms to recover their investment
- 4. Build a dynamic heterogenous-firm model with this mechanisms to examine effects on aggregate outcomes: ↓rates, ↑ corporate debt, ↓ productivity, but ↑output.

Key takeaway: "Evergreening" is present even at large stress-tested U.S. banks and affects the real economy

General assessment

- An exciting paper (very well developed and mature)
 - A clear contribution to the banking literature presents a theory of bank behavior ("evergreening") by which lenders have the incentive to keep distressed firms alive to recover their investment doesn't require distorted incentives to delay loss recognition on bank balance sheets, informational asymmetries, gambling for resurrection, risk-shifting
 - Makes us think in new ways about lending practices at large U.S. banks
- Very topical in light of
 - Several evergreening practices across credit markets when borrowers experience shocks (CRE market, RRE market)
 - Concerns that ample liquidity and low interest rates since the GFC may have led to the breeding of zombie firms in the United States

Two broad sets of comments

- Evergreening or something else?
 - 1. Exploit the Y-14 data for insight into evergreening
 - 2. Model: Aggregate effects of evergreening output goes up
 - 3. Model: Bank defaults?
- Relation to zombie lending
 - Reconciling studies on evergreening vs. zombie lending

Evergreening or something else? #1 Exploit the richness of the Y-14 data

- Standard way of thinking about evergreening the loan comes due, firm cannot repay, and the bank needs to recognize a loss unless it evergreens
- Exploit the richness of the Y14 data to look at loans falling due
 - Empirical evidence is about credit growth (rates) and the bank's decision to keep onlending (not about banks doing extend-and-pretend when loans come due)

 - Do banks engage in temporary or permanent modifications, payment deferrals (forbearance), other types of loan restructurings
- Post-evergreening: Follow the loans over time
 - What are the post-evergreening loan-level outcomes? Do borrowers start cash-flowing again?
 - In the mortgage market, Fannie Mae's <u>reperforming loans</u> are highly successful: 90% are current or paid off

Evergreening or something else? #2 TFP goes down, output goes up – good or bad?

Table 5.3: Impact of introducing concentrated lending.

	Δ % with const. entry	Δ % with const. labor
Firm level (Averages)		
Market Leverage	0.60	0.54
Interest rate	-1.24	-1.13
Size	2.34	1.99
Productivity	-0.04	-0.02
Exit rate	-0.70	-0.17
Aggregates		
Debt	3.13	1.04
Capital	3.13	1.04
Labor	2.14	0.00
Output	2.14	0.10
Wage	0.00	0.10
Measured TFP	-0.31	-0.23
Number of firms	0.77	-0.94

- Implications for concentrated lending vs dispersed lending
 - Evergreening (better lending terms) →
 less firm default (banks recover their
 investment) → firms borrow more
 (↑debt) and are a little larger but also
 less productive (↓TPF), yet output is
 not depressed (↑output)
- Evergreening a strong word?
 - Prudent or fwd looking restructuring?
 - Optimal restructuring response given market structure of lending?

Evergreening or something else? #3 How about bank defaults?

- Model focuses on firm default
- An important dimension for analyzing welfare is bank default
 - How does the model incorporate bank defaults?
 - With evergreening, banks more likely to recoup investment, so bank default too less likely and output ↑ even more
- Is the welfare analysis in the model robust to introducing costs associated with bank defaults?
- The worry in the evergreening literature is that extend-and-pretend "saves the day" but eventually hurts the economy
 - By contrast, the model suggests evergreening is benign, good for the economy, possibly even more so with bank defaults

#4 Relation to zombie lending - Can evergreening and no-zombie lending coexist?

- Zombie lending a malign phenomenon by which distorted incentives among banks to recognize losses lead to evergreening to unviable firms, which weigh on productivity and economic growth
- Favara, Minoiu, and Perez-Orive (2022) find no evidence of zombie lending in the U.S.
 - Use the Y-14 data and show low-capital banks are no more likely to lend to zombie firms (either financially distressed firms with low prospects of recovery or weak firms that receive subsidized credit) than other banks
- Reconcile these findings with evergreening?
 - Some positive correlation of 0.2 between high PD (distressed) and zombie firms → differences across the two groups
 - High PD firms are not necessarily zombies (with no chance of recovery)
 - Evergreening here (benign, does not depress output) can coexist with lack of zombie lending

To sum up

- Insightful work on the lending behaviors of U.S. banks
 - Evergreening on-lending on favorable terms to distressed firms as banks wish to recover their investment
 - Friction: corporate insolvency/restructuring is costly
- Comments:
 - Questions of interpretation: Evergreening or fwd-looking restructuring?
 - Welfare analysis and implications for policy? Evergreening seems benign for output (probably even more so with bank defaults)
- Look forward to seeing the paper in print!