

Discussion: Indebted Supply and Monetary Policy: A Theory of Financial Dominance

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Summary of the paper

Ex-ante capital structure decision and ex-post financial constraint

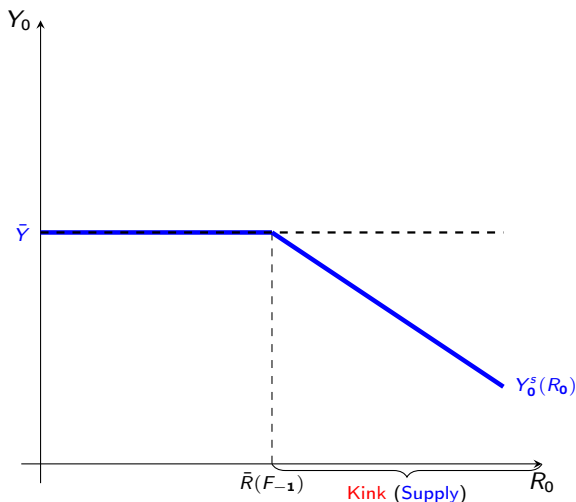
- Ex-ante: lower interest rates spurs “market-timing behavior” of firms (debt financing ↑)
- Ex-post: with large initial debt encumbered to long-term investments, a rising interest rate reduces the value of remaining pledgeable assets, hurting financing for short-term production

Financial dominance: the previous (and current) capital structure decisions of firms affect the conduct of monetary policy

- Inflationary shock: a higher policy rate with a larger drop in output
- Negative demand shock: a lower policy rate, but it tightens future constraints

Beautiful, impactful paper with a ton of interesting policy-relevant points

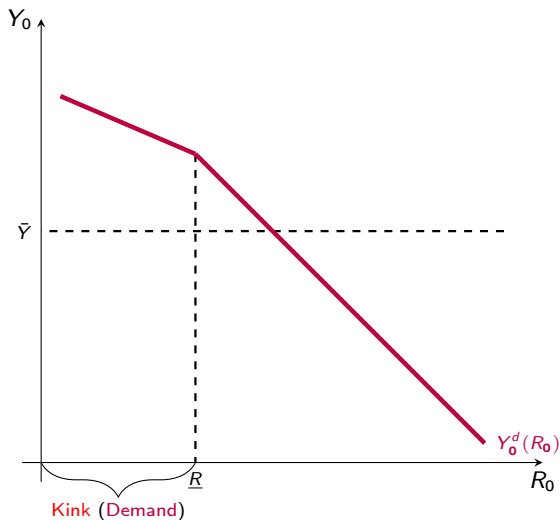
Flexible price (natural) output



With $R_0 > \bar{R}(F_{-1})$, pledgeable asset value < the level required for full continuation

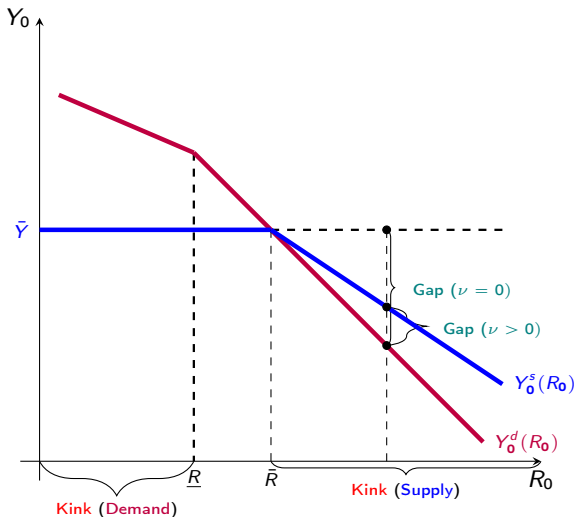
- $F_{-1} = R_{-1}l_{i,-1}$: debt to be repaid at $t = 0$. $\bar{R}(F_{-1})$ is decreasing in F_{-1}
- **Kink** (Supply) caused by the **ex-post** financial constraint

Aggregate demand



With $R_0 < \underline{R}$, firms take too much debt now \longrightarrow future supply is indebted (constrained)

- Lower output at $t = 1$ reduces $t = 0$ income, weakening the monetary policy power
- **Kink (Demand)** caused by the **ex-ante** market-timing behavior of firms



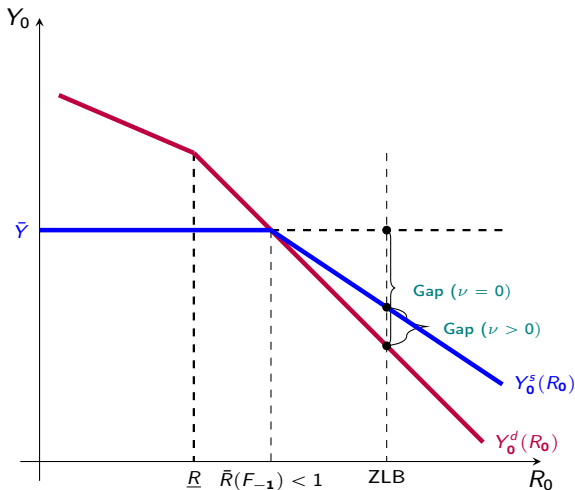
The gap between the two curves determine inflation

- With $R > \bar{R}$, (absolute) gap ($\nu > 0$) is lower than the case without financial constraint ($\nu = 0$): less deflationary (kinked Phillips curve)

► Inflationary shock

► Negative demand shock

Missing disinflation during the Great Recession?



With high F_{-1} from the previous corporate debt boom periods, e.g., [Ivashina et al. \(2024\)](#)

- $\bar{R}(F_{-1})$ can go below 1, in which case R_0 is constrained by ZLB
- Less disinflationary, aligned with [Coibion and Gorodnichenko \(2015\)](#) who suggested the increase in oil prices and the inflation expectation from 09' to 11'

Ex-ante capital structure decision

Ex-ante, firm i chooses $F_{i,t}$ to maximize

$$\underbrace{[\Pi_{i,t+1}(x_{i,t+1}(F_{i,t})) - \gamma x_{i,t+1}(F_{i,t})K]}_{\text{Net profits from production}} + \underbrace{\frac{\kappa_t}{R_t} F_{i,t} K}_{\substack{\text{Market timing} \\ \uparrow \text{ when } R_t \downarrow}}$$

where $\kappa_t = R_t^E - R_t$.

- In the benchmark model, κ_t does not move with R_t : lower R_t raises $F_{i,t}$
- κ_t is the total spread between debt and equity above and beyond **risk premium**, which could stem from a combination of compensation for additional costs borne by equity investors and **convenience yields** that allow debt to pay a lower return

With lower policy rates, usually we have

- Risk premium \downarrow : e.g., **Dreschsler et al. (2018)**, **Kekre and Lenel (2022)**
- Convenience yield \downarrow : e.g., **Krishnamurthy and Lustig (2019)**

Extreme case where $\kappa_t = \kappa_0 \cdot R_t$, then no financial dominance

- Empirical evidence about how κ_t moves with R_t will be very helpful

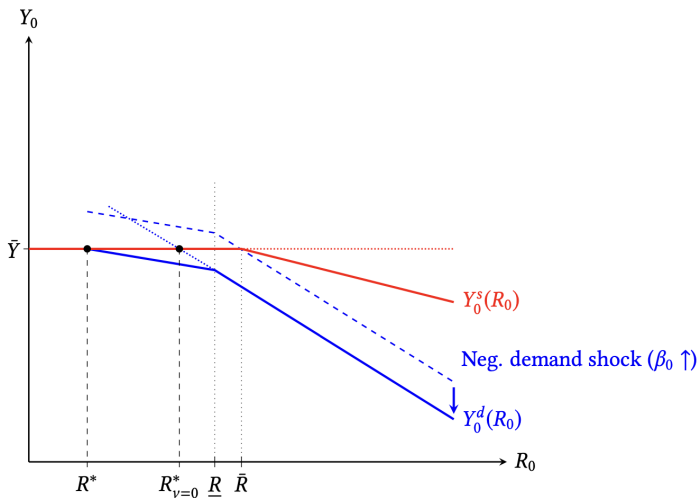
Aggregate supply-demand externality

Externality: each firm does not internalize the effect of its capital structure decision on future aggregate supply, which in turn affects current aggregate demand

As in [Farhi and Werning \(2016\)](#), we can employ

- Ex-ante macroprudential policy
- Ex-post redistribution (to firms) policy

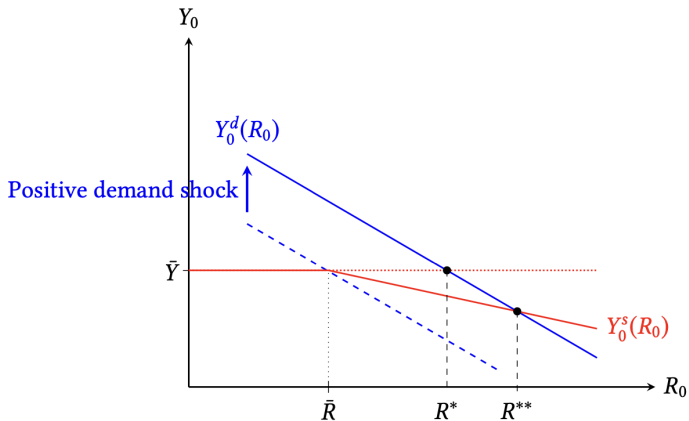
Ex-ante macroprudential policy with negative demand shock



Lower κ at $t = 0$ (i.e., subsidize equity financing or taxing debt financing) to

$$\kappa = R_{v=0}^* (\bar{x}^{1-\nu} - 1)$$

Ex-post redistribution policy with positive demand shock

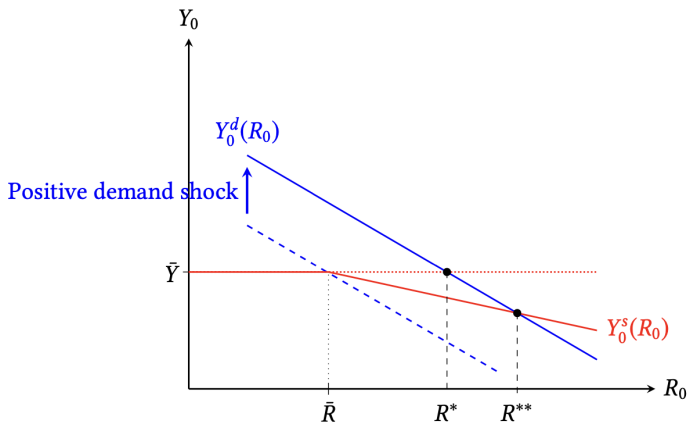


Lower γ_0 (liquidity shock parameter) to

$$\gamma_0 = \beta_0 - F_{-1}$$

Thank you very much!
(Appendix)

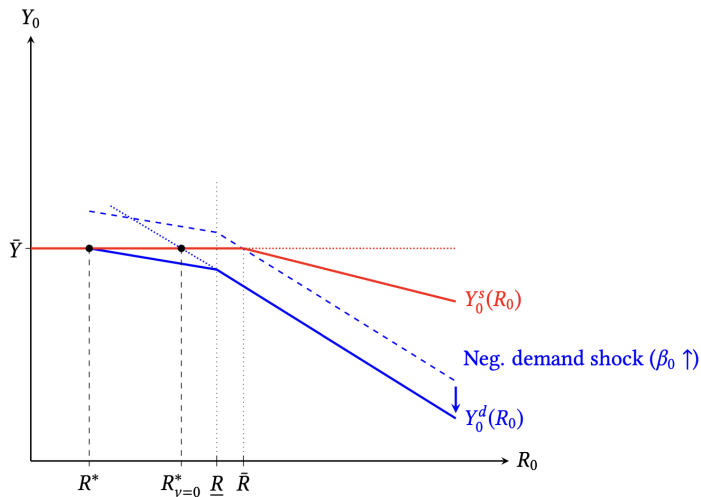
Inflationary shock



Financial dominance: stronger monetary policy response to close the gap (for price stability)

- Issue: natural output \downarrow as $R \uparrow$ from \bar{R} , which is inflationary

Negative demand shock



Financial dominance: stronger monetary policy response to stabilize output

- Issue: lower policy rate makes future supply indebted \rightarrow aggregate demand \downarrow now
- Still, production next period not fully utilized (i.e., slow recovery)