Official Sector Lending Strategies During the Euro Area Crisis Giancarlos Corsetti, Aitor Erce, and Timothy Uy

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Official creditors during the euro debt crisis

Official loan conditions changed significantly between 2010-2013:

- 2010: interest rates of 3-5.5%; maturities 3-7.5 years
- 2013: interest rates of 0.7-3%; maturities 4-30 years
- In this paper:
 - detailed description of bailout programs (diff bw IMF and ESM; private sector involvement; bank recapitalization; etc.)
 - event analysis (Portugal and Ireland):
 - programs with maturity extension and interest rate reduction leads to a decrease of 3-5% in 3yr gov yields and 1-2% in 10yr gov yields
 - similar results for increase in liquidity (bid ask spreads)
- Potential mechanisms:
 - longer maturities reduce current debt burden thus increasing resilience of sovereign (Chatterjee and Eyigungor 2012)
 - lower default probability increases demand for market bonds thus increasing liquidity (Chaumont 2018)

- Impatient government with *iid* income Y_t ; restructured debt D^{res} with fix repayments ϕ_t ; access to debt fix amounts of debt D_2 and D_3 , maturing at t = 2 and t = 3 at market prices for foreign lenders with zero discount
- consumption under no-default:

$$C_1 = Y_1 - (1 - \phi_2 - \phi_3) D^{res} + q_{1,2}D_2 + q_{1,3}D_3$$

$$C_2 = Y_2 - \phi_2 D^{res} - D_2$$

$$C_3 = Y_3 - \phi_3 D^{res} - D_3$$

debt prices:

$$\begin{aligned} q_{1,2} = & \mathsf{Prb}\left[\mathsf{Y} > \mathsf{Y}^{\mathsf{def}} + \phi_2 D^{\mathsf{res}} + D_2\right] \\ q_{1,3} = & \mathsf{Prb}\left[\mathsf{Y} > \mathsf{Y}^{\mathsf{def}} + \phi_3 D^{\mathsf{res}} + D_3\right] \end{aligned}$$

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- Reducing debt payments at period t = 1, by increasing ϕ_2 and ϕ_3 should improve debt sustainability today...
 - but at the cost of debt sustainability tomorrow
- Backloading debt repayments by increasing ϕ_3 and offsetting ϕ_2 should reduce the yield of the short-term bond
 - but at the cost of increasing the yield of the long-term bond
- The result should be a flattening of yield curve
 - consistent with the findings in the paper

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Comments

- Event analysis compares the yield curve for maturities 3yr, 5yr, 10yr before and after maturity extension in 2011 to 15 years
 - maybe should also compare yields of market bonds of maturities longer than 10yrs to evaluate if there's a negative yield effect
- 2 The paper finds that official lending reduction in interest rates generates substantial savings thus making debt more sustainable
 - this may confound the effect associated with the reduction in government yields induced by changes in official lending
- **3** Evidence also suggests that the private sector benefited with lower securities yields and larger volumes after the program changes:
 - corporate bond market represents a small fraction of total credit. Do we have similar evidence for other forms of private debt?
- 4 Event study regressions include controls for uncertainty (VIX)
 - perhaps better to include country specific economic policy uncertainty (Baker, Bloom, and Davis).
- **5** Lessons from the 2012 Greek debt restructuring program?
 - incomplete bank bailout in Greece or potential contagion to Cyprus

The Greek banking crisis

- In 2012, Greek debt was deemed unsustainable generating a debt restructuring with losses for private owners
 - the "Private Sector Involvement" during the default wiped €38b of banks capital and triggered a bailout
 - was this bailout enough to recapitalize the banks? In 2015 a bank run led into another round of recapitalizations
 - Greek PSI may have triggered the crisis in Cyprus by undercapitalizing domestic banks
- An incomplete bank recapitalization may prolong a crisis and undermine the sustainability of an official lending program
 - excess leverage may input misallocation and reduce output

$$C_1 = Y_1(1 - \lambda) - (1 - \phi_2 - \phi_3) D^{res} + q_{1,2}D_2 + q_{1,3}D_3$$

 Caballero, Hoshi, and Kashyap (2008); Kalemli-Ozcan, Laeven, and Moreno (2018); Blattner, Farinha, Rebelo (2019);

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Output, investment, and private sector liabilities



⁽data: Eurostat; World Bank)

net domestic credit

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Summary statistics - production



(data: Eurostat; World Bank)

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Official Sector Lending Strategies

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