Exit expectations in currency unions by A. Kriwoluzky, G. Müller and M. Wolf Discussion

> Leopold von Thadden European Central Bank

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This is a very good paper:

- relevant
- innovative
- carefully done

Work in progress: some results are still missing

Countries belonging to a monetary union, when suffering from weak fiscal fundamentals, face two distinct risks

 \rightarrow redenomination risk (resulting from exit, ie return to a depreciated new domestic currency)

 \rightarrow credit risk (resulting from sovereign default within MU)

Main idea: assume country faces unsustainable gov't debt dynamics

• exit can restore stability when combined with monetary adjustment (via switch to passive MP)

 \rightarrow FTPL logic

- default can restore stability within MU when combined with credible fiscal adjustment (via passive FP)
 - \rightarrow Conventional logic

Application: use calibrated model version to shed light on developments in Greece (2009-2012)

- a priori, either type of regime change (exit vs default) possible
- implications for outcomes prior to regime change are different
- structural model makes it possible to explore quantitative relevance of perceptions of exit risk vs default risk as drivers of Greek developments prior to debt restructuring

Empirical upshot (work in progress):

exit expectations account for small fraction of sovereign spreads, but may have some relevance to explain stagflation

Model features

- Country is small relative to the rest of the MU (Gali/Monacelli)
- New Keynesian framework (with Calvo-prices)
- Fiscal policy in the spirit of Leeper: active or passive
- Monetary policy: active or passive after exit under float; otherwise (actively) set by MU
- Regime change: Markov-Switching linear RE model
- Probabilities of regime change are exogenous

Regimes

Initial state (imperfectly credible, surviving with prob μ):

• country with

PF in Union

Two absorbing states:

• after one-time default, with prob $(1 - \mu)\lambda$:

PF in Union

• after exit, with prob
$$(1 - \mu)(1 - \lambda)$$
:

AF with Float and PM

Exit vs Default premia: different impact

Exit: expected depreciation pushes up yields on all domestic-law bonds

$$r_t = r^* + E_t \Delta e_{t+1}$$

Sovereign default (δ_{t+1}): pushes up yields on gov't bonds

$$i_t = r_t + E_t \delta_{t+1}$$

Spillovers (Sovereign risk channel): effective private yields rise with δ_{t+1}

$$\widetilde{r}_t = r_t + \chi E_t \delta_{t+1}$$

 \rightarrow Consumption Euler equation of private HH depends on $\tilde{r_t}$ I) Default, but no exit:

$$i_t > \widetilde{r_t} \ge r^*$$

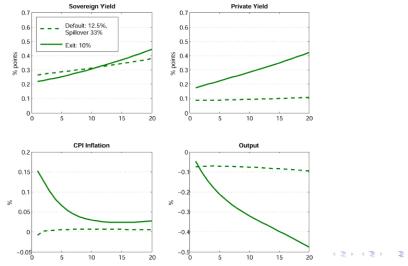
II) Exit, but no default:

$$i_t = r_t = \widetilde{r_t} > r^*$$

 \rightarrow Exit conducive to stagflation

Exit vs Default premia

IR's conditional on staying in the initial regime for 20 periods:



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Q1) Special case: $\chi = 0$ (no spillovers):

 \rightarrow sharp implications for different effects of exit vs. default risk prior to regime change

Exit: stagflation prior to regime change

why?

- A1) Some firms do not adjust prices upon exit (Calvo-pricing)
 - \rightarrow Expected nominal devaluation comes with real devaluation
 - \rightarrow Real interest rate goes up prior to regime change

Default: no implication on real economy

why?

- A2) Lump-sum taxes
 - \rightarrow Ricardian equivalence
 - \rightarrow Size of haircut indeterminate!

Q1) Special case: $\chi = 0$ (no spillovers):

Plausibility of A1 and A2?

- A1) Nominal rigidity
 - \rightarrow Exit is a major event for the state of the economy
 - \rightarrow Why Calvo-pricing ?
 - \rightarrow Why not A1'): flexible prices?
 - \rightarrow Exit without real effects!
- A2) Nature of tax system
 - \rightarrow Why not A2'): distortionary taxes?
 - \rightarrow Anticipation effects under default become non-trivial

 \rightarrow A1') and A2'): Implications for outcomes under exit and default may flip around?

Q2) Initial state

Country starts with

PF in Union

Differently from early draft, initial regime with no fundamental foundation for regime changes

- why shift to self-fulfilling story ?
- shift to exit regime

AF and PM under Float

now driven not only by monetary, but also by fiscal adjustment \rightarrow motivation is not straightforward!

• Why not:

PF and AM under Float ?

Q3) Sovereign-Bank nexus is missing

Model features:

- $\chi > 0$: sovereign yields carry a premium relative to private yields
- $\chi = 0$: sovereign default clean and separate from private sector

Fear in 2009 and later:

- Sovereign default likely to be not clean
- Fear of a collapse of banking system with non-trivial spillovers

Positive reading of the findings of the paper:

 \rightarrow easy restructuring of sovereign debt within MU should be made possible?

Q4) Policy implications

to be taken seriously:

- \rightarrow assumptions of small open economy and exogenous probabilities
 - no role for EA authorities
 - no systemic relevance of default, no bail-out story
 - poor fiscal policy in the initial state:

 \rightarrow no free-riding motive

- \rightarrow so: what motivates such policy?
- not clear: is membership in MU advantageous?

Compare with

Draghi on the minimum requirements for monetary union (27 Nov 2014) "Members have to be better off inside than they would be outside"



• The paper is well done and insightful

• Assumption that critical country is small relative to the rest of the MU leads to clean results

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 \rightarrow but be aware of the special policy implications

- More work is needed to address some of the open issues
 - \rightarrow default / role of banking system
 - \rightarrow strategic aspects
 - $\rightarrow \text{ welfare}$