Eurosystem's asset purchases and money market rates

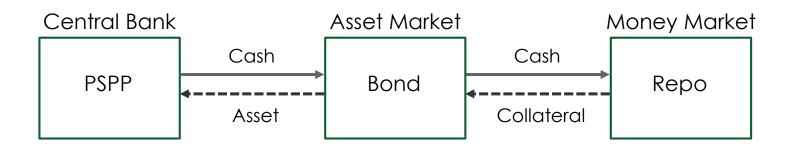
William Arrata, Benoit Nguyen, Imene Rahmouni-Rousseau, and Miklos Vari

Discussant: Angelo Ranaldo

European Central Bank Workshop on Money markets Monday 6 November 2017, Frankfurt

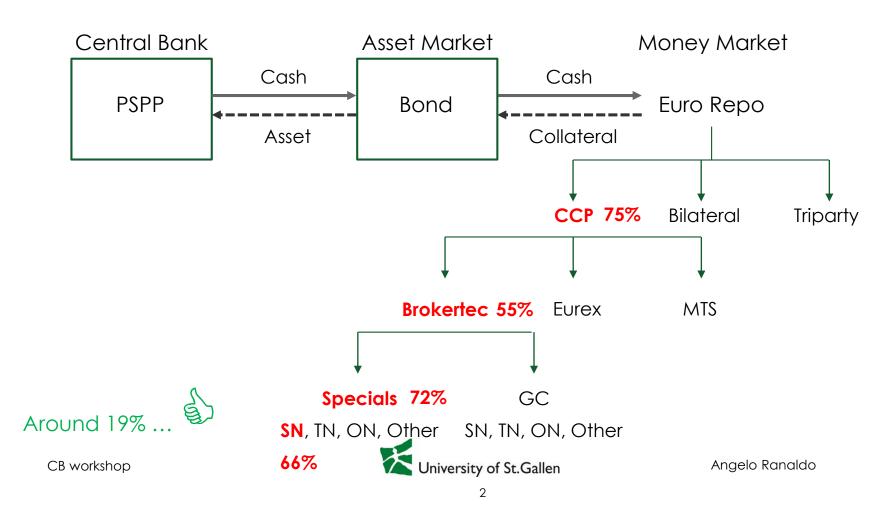


The paper in a nutshell

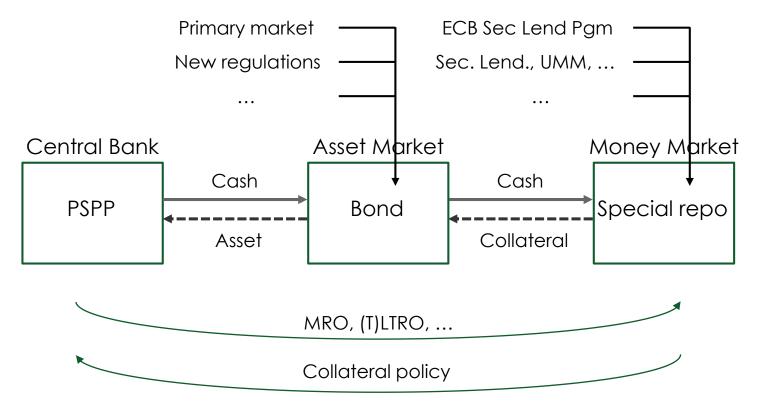




Representativeness of this segment?



Many factors ... Mission impossible?





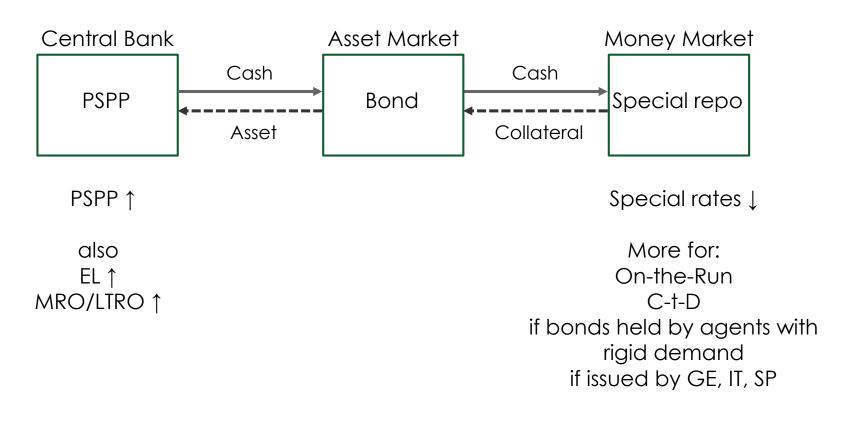
Many factors ... Mission impossible? Not really

How can one handle such a complex system and many factors?

- Panel Regressions!
 Good econometric method ...
- Unless you have all data for a perfect identification strategy, Fixed Effects help capture ...
 - Bond FE: bond characteristics (e.g. maturity, coupon, ...)
 - Country FE: country features (e.g. haircuts, sovereign, ...)
 - Time FE: a bundle of underlying driving forces (e.g. Excess Liquidity ...)
 - ... and switching off time-FE, one can try to quantify some "underlying driving forces" or "calendar" effects such as End-of-Quarter, EoM, …



Main findings





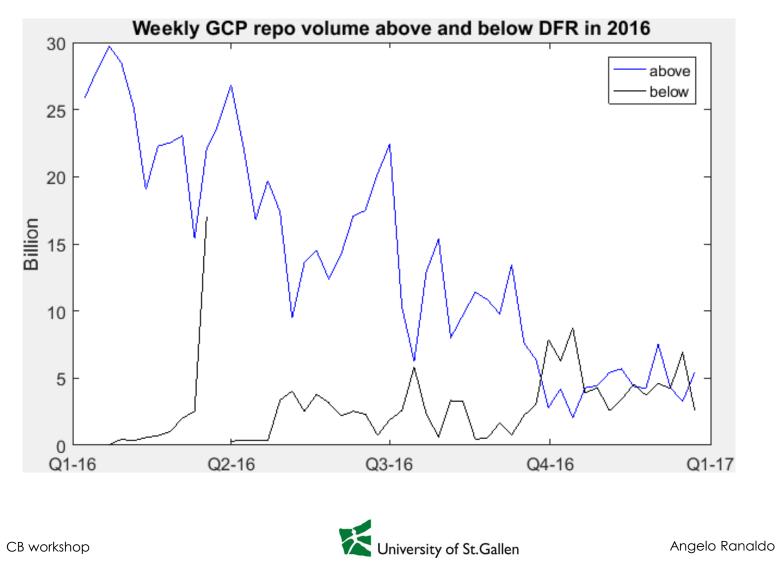
Comment 1: Which research question?

Two main questions:

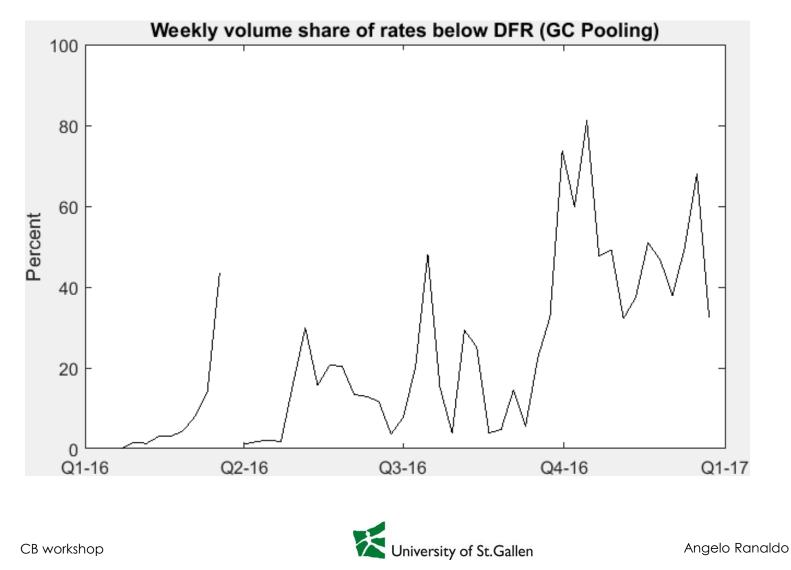
- Why repos are traded below the ECB Deposit Facility Rate (DFR)?
 - But there is no regression analysis
- How the PSPP program affect repo markets?
 - There is a regression analysis but only for Specials
- Both are very important questions!
- Focus on one of them and provide an in-depth analysis



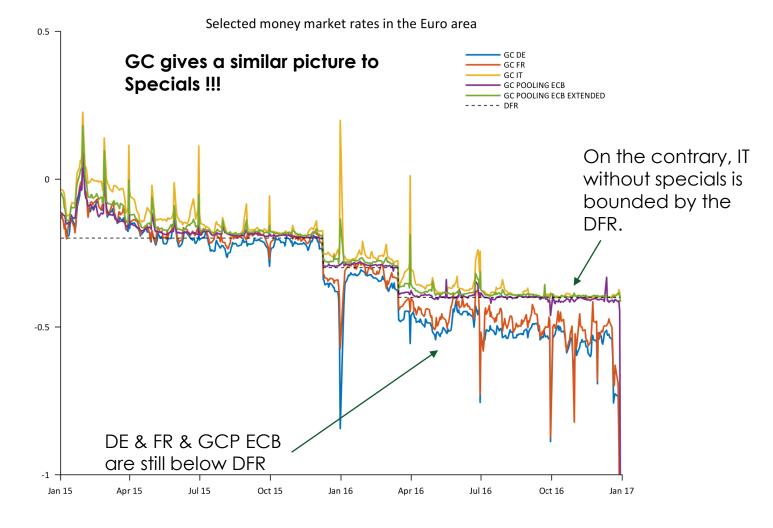
About Q1: Market share below DFR



About Q1: Market share below DFR



About Q2: What drives GC repo rates?



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Comment 2: Where is "Specialness"?

- Explained variable: $r_t^{SP,i}$
- Challenging $r_t^{GC,i} r_t^{SP,i}$ as the measure of Specialness e.g. Corradin, Maddaloni (2017), Ferrari et al. (2017).
- ... because $r_t^{GC,i}$ is **not** a risk-free rate
- ... because country i can become SPECIAL as a whole
- But then $r_t^{GC,i}$ is neglected in the regression analysis
- Can one really explain $r_t^{SP,i}$ ignoring $r_t^{GC,i}$?
- Mmmmmm ...
 - Economically it's hard to argue this
 - Econometrically, omitted Δ bias

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Comment 2: Where is "Specialness"?

- Let's look at specialness as $\theta^i r_t^{GC,i} r_t^{SP,i}$. Previous literature imposes $\theta^i = 1$. But you can generalize this ...
- Option 1 (static):
 - $\theta^{i} r_{t}^{GC,i} r_{t}^{SP,i} = f(PSPP_{t}, ...) + \varepsilon_{t}^{i}$
 - $r_t^{SP,i} = f(PSPP_t, \theta^i r_t^{GC,i}, ...) + \varepsilon_t^i$
- Option 2 (dynamic), e.g. $\theta_t^i r_t^{GC,i} r_t^{SP,i}$ 2-stage approach ...
 - Step 1: every week τ you regress $r_{\tau}^{GC,i} = \cdots + \theta^i PSPP_{\tau} + \varepsilon_{\tau}^i$ and collected a weekly time series of $\hat{\theta}_{\tau}$
 - Step 2: $r_{\tau+1}^{SP,i} = f(PSPP_{\tau+1\tau}, \hat{\theta}_{\tau}, \dots) + \varepsilon_{\tau+1}^{i}$
- Option 3: a **unique** risk-free rate exists! $r_t^{RF} r_t^{SP,i}$
 - What can r_t^{RF} be? DFR? GCP? ...

Other points

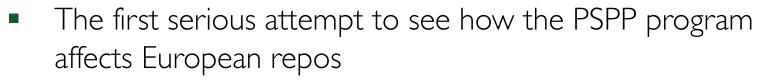
Calendar effects

- Your findings: EoM and EoQ, rates down
- BIS (2017): since mid-2015 repo rates referencing German and French collateral have spiked downwards at period-ends, while those against Italian and Spanish collateral have continued to spike upwards.
- EU versus U.S.
 - EU repo rates below DFR similar to the U.S experience, i.e. mm rates below the rate of interest on excess reserves (IOER)?
 - Lack of arbitrage: Trading non-anonymity, relationships and bargaining power are key Bech and Morten (2011)



Overall

A very interesting paper !!!



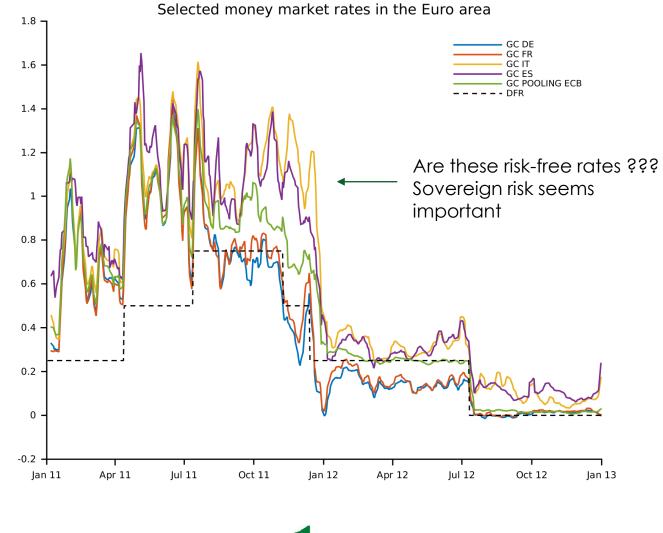
- Multiple research questions and interesting ideas. Center your analysis on one of them and make the rest ancillary ...
- Very promising regression results on Specials. What about GC?



Appendix



What drives GC rates?



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