

Functioning of the Euro Area Repo Markets



Harald Bäsch

MMCG Meeting, Frankfurt 12th of March, 2019

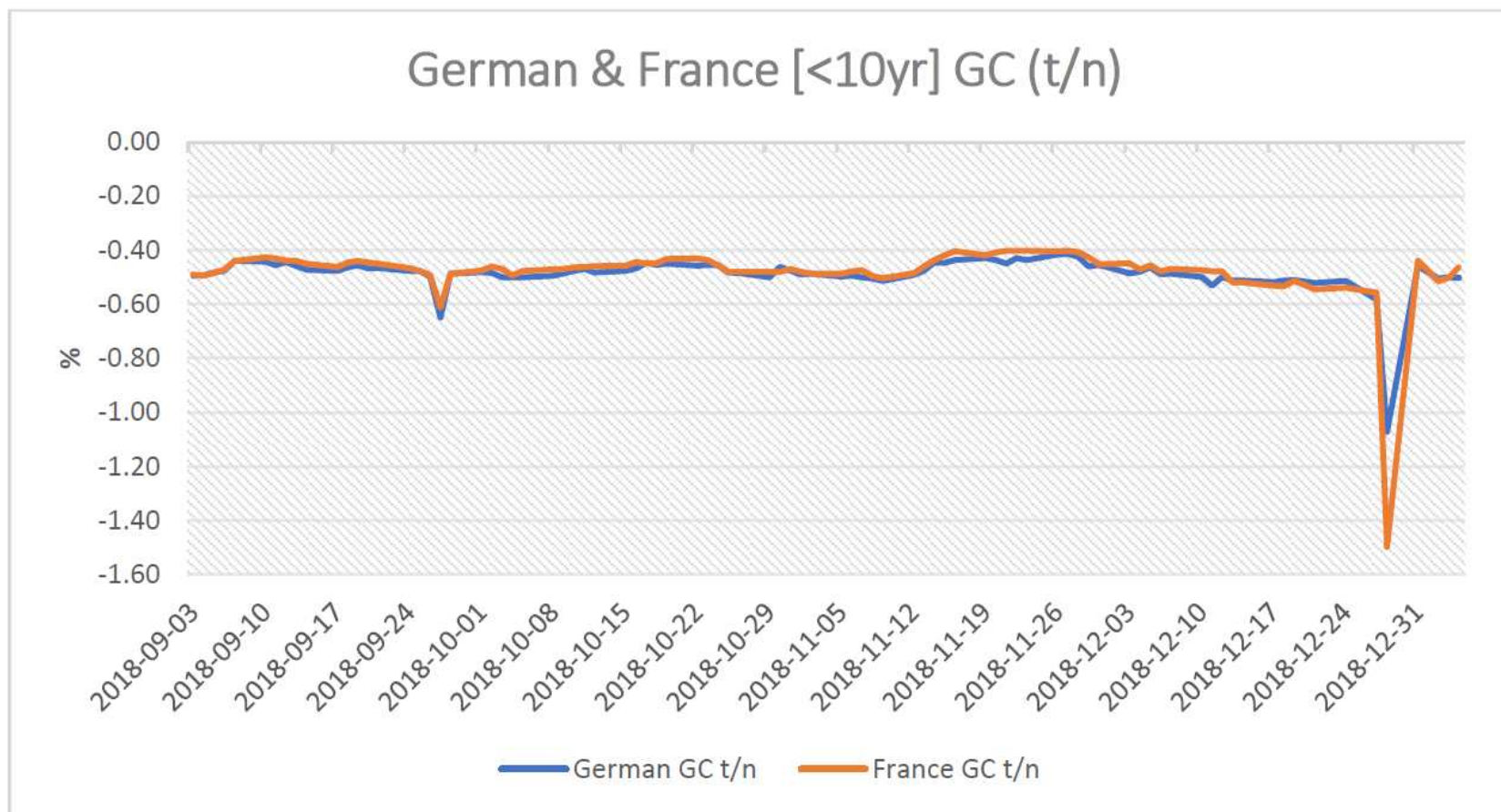
Banking that matters. |  **UniCredit**

Observations of Developments in 2018/2019

Observations	<ul style="list-style-type: none">▪ Convergence of repo rates across European underlying's▪ Fairly short dated trading tenors except for Italian government debt▪ Relatively uneventful trading at recent critical reporting dates
Potential Reasons	<ul style="list-style-type: none">▪ End of QE provided remedy for collateral availability as well as it reduced short positions▪ Because of a potential TLTRO succession rates the execution of trading strategies are set on hold▪ Lack of stimulus stemming from a recalibrated rate expectation is confining activities mainly to short tenors▪ Market participants have become more aware of behavioral risks and managed potential risks in advance
Evidence	<ul style="list-style-type: none">▪ Price-actions at specific dates became evident in forward trading whereas levels at critical dates were trading at significantly cheaper prices▪ Market participants with no access to ECB's deposit facility managed their needs ahead of time and/or mitigated the potential risks in price and availability of collateral with covered RCFs▪ CtD bonds traded at significantly cheaper levels
Selected Elements for Discussion	<ul style="list-style-type: none">▪ Extension of collateral schedules▪ Over-borrowing▪ Lending programs of European NCBs▪ Spread compression▪ Collateralized RCFs



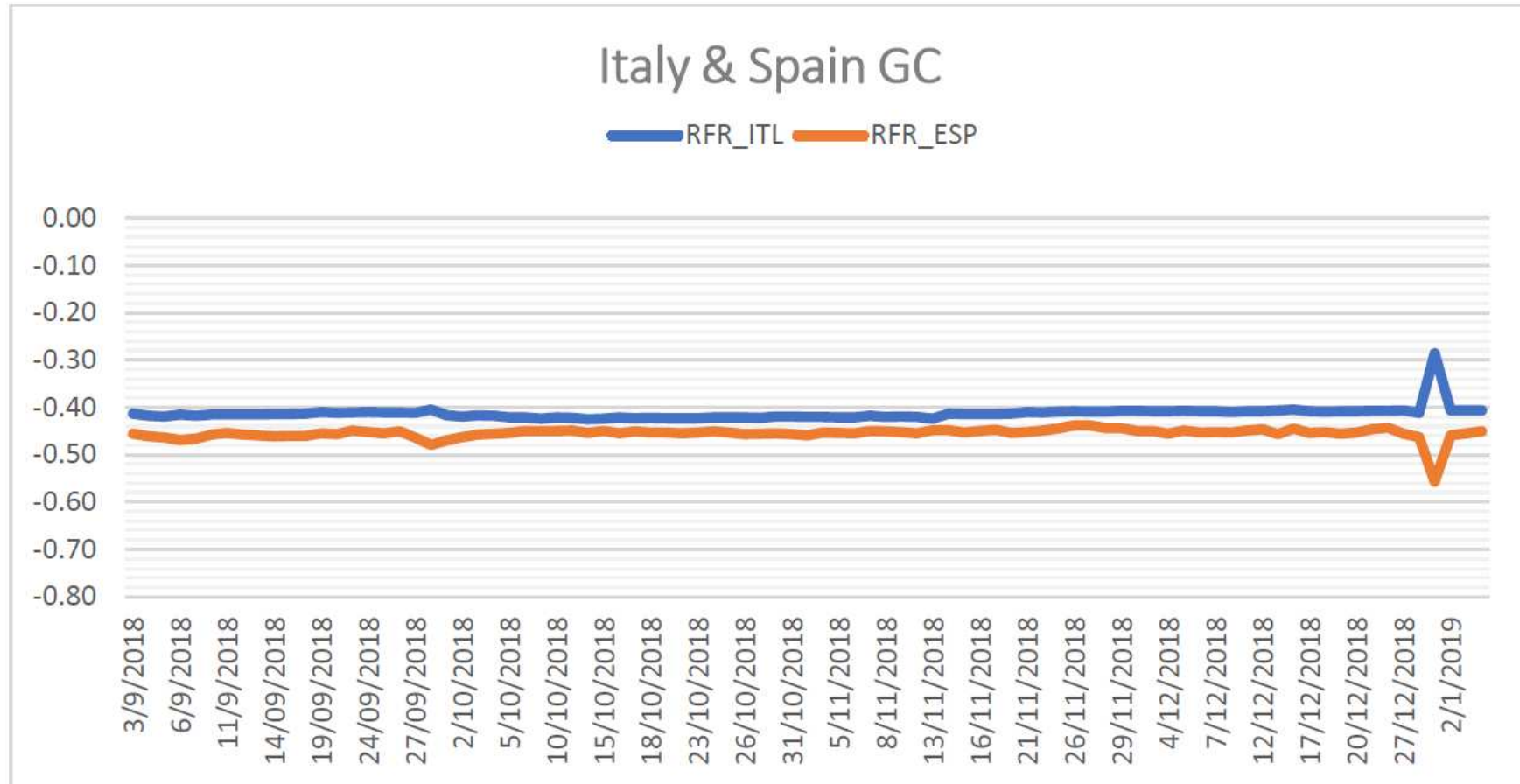
2018 Rate Development of German & French GC



Source: Source: Nex Data Services Ltd (BrokerTec Repo)



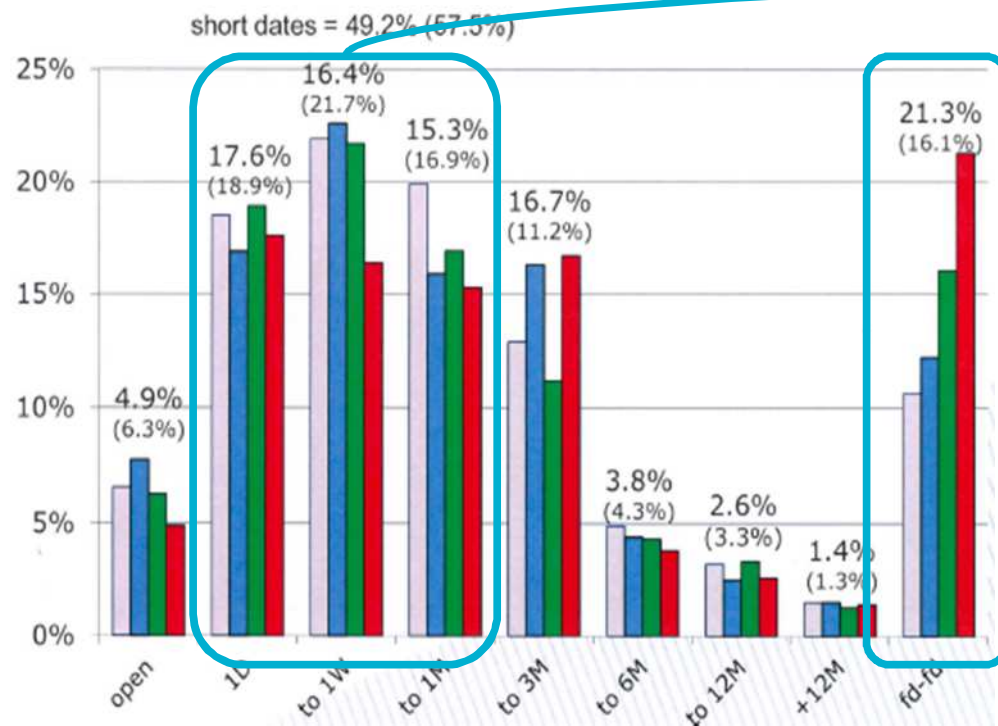
2018 Rate Development of Italian & Spanish GC



Source: Repo Funds Rate



Volumes within the European Repo Market



Volume in short termed transactions reduced slightly during the last 2 years (57.5% to 49.2%) in favor of forward trades, but nevertheless almost half of market volumes are traded in tenors < 1 month

Throughout 2018 the volume in forward repos has more than doubled from 10,5% in June 2017 to over 21% in December 2018

Source: ICMA - 36th European Repo Market Survey December 2018
6 Month-Intervals starting June 2017



Disclaimer

This publication is presented to you by:
Corporate & Investment Banking
UniCredit Bank AG
Arabellastr. 12
D-81925 Munich

The information in this publication is based on carefully selected sources believed to be reliable. However we do not make any representation as to its accuracy or completeness. Any opinions herein reflect our judgement at the date hereof and are subject to change without notice. Any investments presented in this report may be unsuitable for the investor depending on his or her specific investment objectives and financial position. Any reports provided herein are provided for general information purposes only and cannot substitute the obtaining of independent financial advice. Private investors should obtain the advice of their banker/broker about any investments concerned prior to making them. Nothing in this publication is intended to create contractual obligations. Corporate & Investment Banking of UniCredit consists of UniCredit Bank AG, Munich, UniCredit Bank Austria AG, Vienna, UniCredit S.p.A., Rome and other members of the UniCredit. UniCredit Group and its subsidiaries are subject to regulation by the European Central Bank. In addition UniCredit Bank AG is regulated by the Federal Financial Supervisory Authority (BaFin), UniCredit Bank Austria AG is regulated by the Austrian Financial Market Authority (FMA) and UniCredit S.p.A. is regulated by both the Banca d'Italia and the Commissione Nazionale per le Società e la Borsa (CONSOB).

Note to UK Residents:

In the United Kingdom, this publication is being communicated on a confidential basis only to clients of Corporate & Investment Banking of UniCredit (acting through UniCredit Bank AG, London Branch) who (i) have professional experience in matters relating to investments being investment professionals as defined in Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 ("FPO"); and/or (ii) are falling within Article 49(2) (a) – (d) ("high net worth companies, unincorporated associations etc.") of the FPO (or, to the extent that this publication relates to an unregulated collective scheme, to professional investors as defined in Article 14(5) of the Financial Services and Markets Act 2000 (Promotion of Collective Investment Schemes) (Exemptions) Order 2001 and/or (iii) to whom it may be lawful to communicate it, other than private investors (all such persons being referred to as "Relevant Persons"). This publication is only directed at Relevant Persons and any investment or investment activity to which this publication relates is only available to Relevant Persons or will be engaged in only with Relevant Persons. Solicitations resulting from this publication will only be responded to if the person concerned is a Relevant Person. Other persons should not rely on or act upon this publication or any of its contents.

The information provided herein (including any report set out herein) does not constitute a solicitation to buy or an offer to sell any securities. The information in this publication is based on carefully selected sources believed to be reliable but we do not make any representation as to its accuracy or completeness. Any opinions herein reflect our judgement at the date hereof and are subject to change without notice.

We and/or any other entity of Corporate & Investment Banking of UniCredit may from time to time with respect to securities mentioned in this publication (i) take a long or short position and buy or sell such securities; (ii) act as investment bankers and/or commercial bankers for issuers of such securities; (iii) be represented on the board of any issuers of such securities; (iv) engage in "market making" of such securities; (v) have a consulting relationship with any issuer. Any investments discussed or recommended in any report provided herein may be unsuitable for investors depending on their specific investment objectives and financial position. Any information provided herein is provided for general information purposes only and cannot substitute the obtaining of independent financial advice.

UniCredit Bank AG London Branch, Moor House, 120 London Wall, London, EC2Y 5ET, is subject to regulation by the European Central Bank (ECB) and is authorised by Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin) and subject to limited regulation by the Financial Conduct Authority and Prudential Regulation Authority. Details about the extent of our regulation by the Financial Conduct Authority and Prudential Regulation Authority are available from us on request.

Notwithstanding the above, if this publication relates to securities subject to the Prospectus Directive (2005) it is sent to you on the basis that you are a Qualified Investor for the purposes of the directive or any relevant implementing legislation of a European Economic Area ("EEA") Member State which has implemented the Prospectus Directive and it must not be given to any person who is not a Qualified Investor. By being in receipt of this publication you undertake that you will only offer or sell the securities described in this publication in circumstances which do not require the production of a prospectus under Article 3 of the Prospectus Directive or any relevant implementing legislation of an EEA Member State which has implemented the Prospectus Directive.

Note to US Residents:

The information provided herein or contained in any report provided herein is intended solely for institutional clients of Corporate & Investment Banking of UniCredit acting through UniCredit Bank AG, New York Branch and UniCredit Capital Markets LLC (together "UniCredit") in the United States, and may not be used or relied upon by any other person for any purpose. It does not constitute a solicitation to buy or an offer to sell any securities under the Securities Act of 1933, as amended, or under any other US federal or state securities laws, rules or regulations. Investments in securities discussed herein may be unsuitable for investors, depending on their specific investment objectives, risk tolerance and financial position.

In jurisdictions where UniCredit is not registered or licensed to trade in securities, commodities or other financial products, any transaction may be effected only in accordance with applicable laws and legislation, which may vary from jurisdiction to jurisdiction and may require that a transaction be made in accordance with applicable exemptions from registration or licensing requirements.

All information contained herein is based on carefully selected sources believed to be reliable, but UniCredit makes no representations as to its accuracy or completeness. Any opinions contained herein reflect UniCredit's judgement as of the original date of publication, without regard to the date on which you may receive such information, and are subject to change without notice.

UniCredit may have issued other reports that are inconsistent with, and reach different conclusions from, the information presented in any report provided herein. Those reports reflect the different assumptions, views and analytical methods of the analysts who prepared them. Past performance should not be taken as an indication or guarantee of further performance, and no representation or warranty, express or implied, is made regarding future performance.

We and/or any other entity of Corporate & Investment Banking of UniCredit may from time to time, with respect to any securities discussed herein: (i) take a long or short position and buy or sell such securities; (ii) act as investment and/or commercial bankers for issuers of such securities; (iii) be represented on the board of such issuers; (iv) engage in "market-making" of such securities; and (v) act as a paid consultant or adviser to any issuer.

The information contained in any report provided herein may include forward-looking statements within the meaning of US federal securities laws that are subject to risks and uncertainties. Factors that could cause a company's actual results and financial condition to differ from its expectations include, without limitation: Political uncertainty, changes in economic conditions that adversely affect the level of demand for the company's products or services, changes in foreign exchange markets, changes in international and domestic financial markets, competitive environments and other factors relating to the foregoing. All forward-looking statements contained in this report are qualified in their entirety by this cautionary statement.

Corporate & Investment Banking

UniCredit Bank AG
as of 8 March, 2019

