

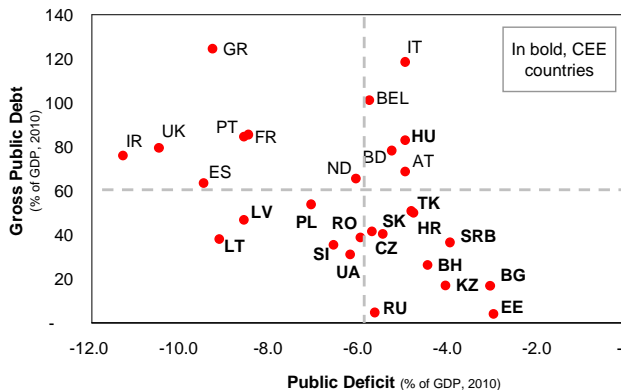
## Estonia's euro adoption: green light from the EU Commission

- Estonia will be the 17<sup>th</sup> eurozone member, the third of the ex-communist countries after Slovenia (2007) and Slovakia (2009) to join the common currency, the euro. Indeed, the EU authorities gave a positive assessment on Estonia's readiness to join the eurozone, despite several macroeconomic and structural risks underlined by the authorities. The ECB report was more critical than that of the EU Commission, especially on inflation.
- The positive assessment is an important step for Estonia, the Baltics and other Central Eastern European countries. The risk of a different decision was tangible, since Estonia was knocking at eurozone's door at the worst possible moment, in the midst of turmoil affecting the area following the Greek troubles. This could have prompted Brussels to further tighten the Maastricht criteria for eurozone entry, possibly stressing the issue of "sustainability" (of public finances, or inflation). However, this is obviously not the case.
- Estonia, with 1.3mn inhabitants and the second-smallest eurozone economy, is ready to adopt the euro, which it will do from the beginning of 2011. The country has "clearly" achieved the Maastricht criteria: Estonian debt reached a mere 7.2% of GDP in 2009 (it will remain lower than 10% in 2010, we estimate), the deficit stood at 1.7%, and average inflation was negative (despite it moving significantly upward this year).
- Estonia is probably the best-placed country in terms of fiscal metrics in Europe. Estonian country risk (in terms of 5Y USD CDS) sensibly decreased during the past months and it is now lower than that of Italy and Spain. Surely, the eurozone is not going to allow a profligate member into the club just to have to rescue it later. The message from the EU authorities is clear, in our view: the door will remain open for virtuous countries.

Matteo Ferrazzi (UniCredit Bank Milan)  
+39 02 8862-8600  
matteo.ferrazzi@unicreditgroup.eu

**Chief Economist - UniCredit Group**  
**Head of Global Economics & FI/FX Research**  
Marco Annunziata, Ph.D., Chief Economist  
+44 20 7826-1770  
marco.annunziata@unicreditgroup.eu

### PUBLIC DEBT AND DEFICIT IN EUROPE (2010 EXPECTED, % ON GDP)



**Bloomberg**  
UCGR, UCFR

**Internet**  
www.research.unicreditgroup.eu

Source: EU Commission (Spring forecasts), UniCredit Research

## Estonia accession: the road ahead

**Authors:**

**Matteo Ferrazzi**  
[Matteo.ferrazzi@unicreditgroup.de](mailto:Matteo.ferrazzi@unicreditgroup.de)

**Gulfidan Esra**  
[Esra.Gulfidan@unicreditgroup.eu](mailto:Esra.Gulfidan@unicreditgroup.eu)

Estonia, with 1.3mn inhabitants and the smallest among the three Baltic economies, has been given the green light to adopt the euro, from the beginning of next year. The EU and the ECB Wed (12 May) gave a positive assessment on Estonia's readiness to join the eurozone. Estonia may expect the final decision to be made in July 2010, although this is just a formality. Possible concerns from EU authorities on the sustainability of public finances and inflation are no longer a source of risk on the Estonian path to euro adoption.

The country has achieved the Maastricht criteria: Estonian debt reached a mere 7.2% of GDP in 2009 (it will remain lower than 10% in 2010, according to our calculations), the deficit stood at 1.7% of GDP, and average inflation was negative also, despite it moving significantly north this year. According to the ECB, the Estonian increase in inflation reflects temporary factors. A solid fiscal position of the country is out of the question:

- (a) The public deficit is moving upward, but increasing from 1.7% of GDP to only 2.4% in 2010 (while it should remain higher than 6.6% this year on average in the eurozone, according to the recent Spring Forecasts of the EU Commission).
- (b) With the lowest level of public debt in percentage of GDP among EU members, interest expenses will remain around 0.3%-0.4% of GDP this year (again the lowest level among the 27 EU members also on these metrics).
- (c) On the contrary, Estonia's problems lie in the very high external indebtedness (mainly driven by the private sector), to remain between 120% and 130% this year, but this variable is not part of the Maastricht criteria.<sup>1</sup>

In summary, Estonia is probably the best-placed country in terms of fiscal metrics in Europe. It is unlikely that the eurozone would allow a profligate member to join the club and then have to rescue it sometime in the future. Given the fiscal solidity, and the perspectives of euro adoption, Estonian country risk (in terms of 5Y CDS) sensibly decreased during the past months and it is now lower than that of Italy and Spain.

### THE DECISION-MAKING PROCESS OF THE EUROPEAN UNION

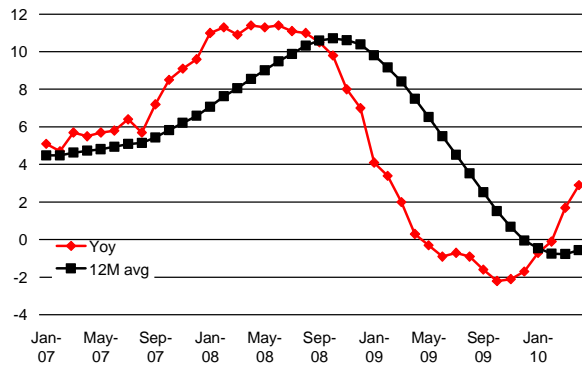
The decision-making process	Information activities
<b>12 May</b> – publication of Estonia's convergence report.	<b>May:</b> Arrangements to conclude the Agreement on Best Practices for fair pricing, preparations for the fair pricing campaign and informing consumers.
<b>June</b> – recommendation of eurozone Member States and consultations with the European Parliament.	
<b>8 June</b> – ECOFIN meeting, discussion of Estonia's compliance on the basis of the assessments made by the Commission and the ECB and of the Commission's proposal.	<b>June:</b> Launch of information activities for the clientele of major companies and training for entrepreneurs.
<b>18 June</b> – the European Council discusses Estonia's readiness to join the eurozone.	
<b>6 July</b> – ECOFIN's final decision about Estonia's accession to eurozone and confirmation of exchange rate.	<b>July:</b> Press events regarding the decision of ECOFIN in Brussels and Tallinn; signing of the Agreement on Best Practices and launch of the fair pricing campaign.

Source: EU Commission

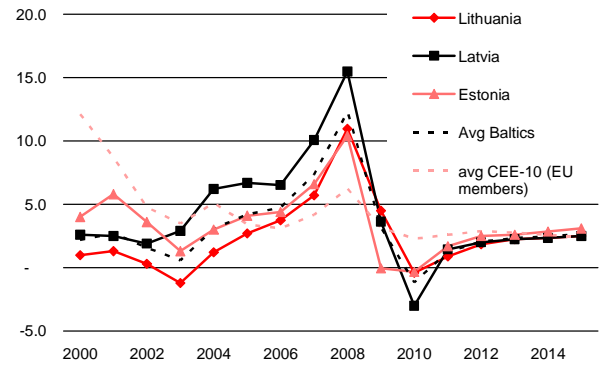
<sup>1</sup> The Maastricht criteria are the following: i) CPI must be no more than 1.5pp higher than the average of the three best-performing countries; ii) Bond yields not higher than the avg. of the three best EMU members +1% point; iii) Public debt/GDP ratio not over 60%; iv) Budget deficit not over 3% of GDP; v) FX stability (the band is in the +/-15% range) and presence in the ERM-II mechanism.

**PRICE DYNAMIC IN THE BALTICS**

Estonian CPI Inflation (yoy change)



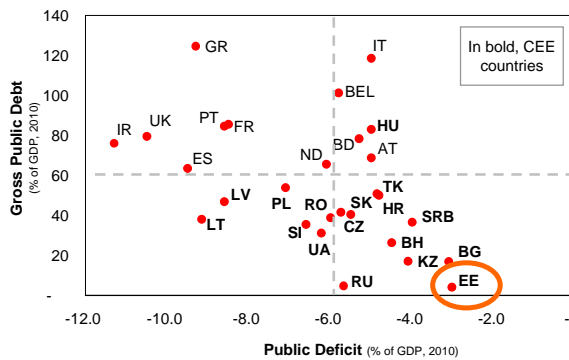
Average inflation in the Baltics (CPI, %)



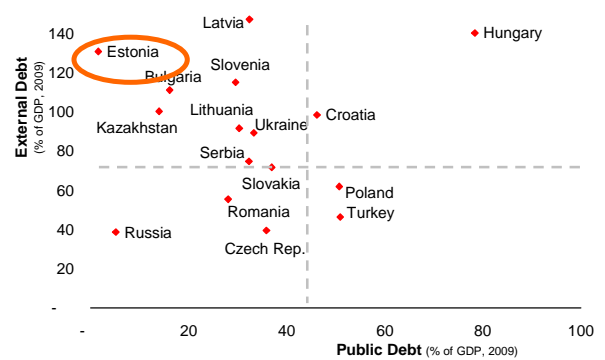
Source: Estonian Statistical office, Eurostat, UniCredit Research

**PUBLIC AND EXTERNAL INDEBTEDNESS IN EUROPE**

Public debt and deficit in Europe (2010 expected, % on GDP)



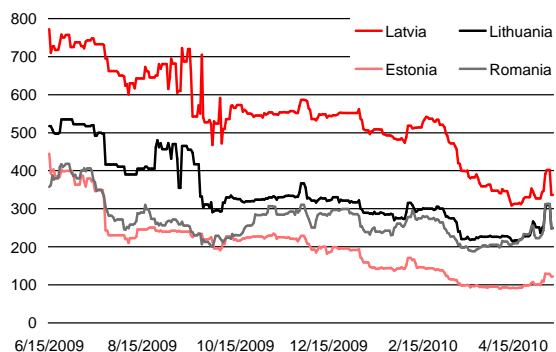
Public and external debt in Central Eastern Europe (% of GDP, 2009)



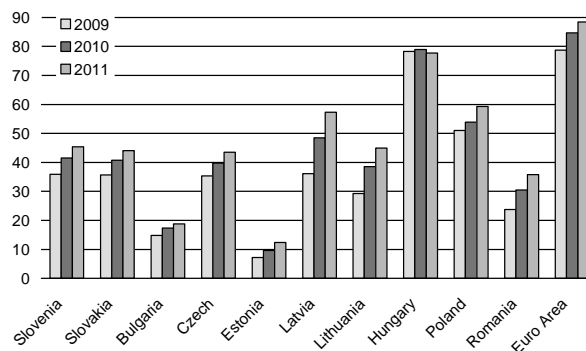
Source: EU Commission, UniCredit Research

**ESTONIAN CONVERGENCE**

Country risk in the Baltics and Romania (5Y USD CDS)



EU Commission expectation on public debt (public debt, % of GDP)



Source: EU Commission (Spring forecasts)

The Estonian economy – whose size reaches only EUR 13bn – has been one of the worst-performing in the world in 2009, after having been among the top 20 high-growing countries worldwide in 2000-07. Namely, considering the GDP evolution in 2009, the Estonian economy was the fifth-worst performing in the world (-14.1% in terms of real GDP), after Latvia (-18%), Ukraine (-15.1%), Lithuania (-15%) and Armenia (-14.4%).

Regarding the first months of this year, the Estonian economy contracted by 2.3% yoy in the first quarter of 2010, following a drop of 9.5% in 3Q09 and 15.6% in 4Q09. Estonian unemployment moved to 15.5% in 4Q09 and should remain higher than 15% for the whole 2010. On the positive side, the adjustment in the external accounts was very fast: the current account deficit moved from 18% and 9.4% in 2007 and 2008, to a surplus.

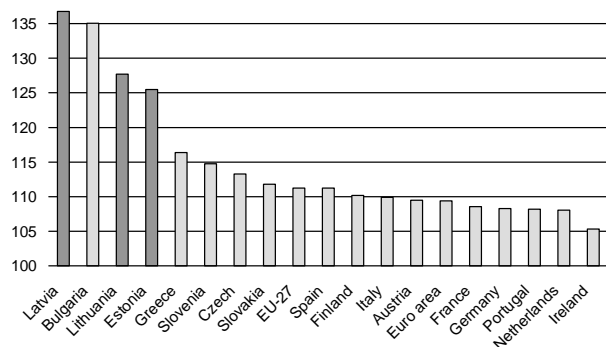
The fixed peg of the Estonian kroon versus the euro had, of course, a role in explaining the downturn. While most of the Central Eastern European countries saw their currencies depreciating sharply during the crisis and re-gaining export competitiveness via a weaker exchange rate, the Baltic economies, Estonia included, more intensively suffered the adjustment in a process of “internal devaluation” that could turn out to be a point of reference for some EMU “peripheries” such as Greece.

Estonian cost competitiveness is the key point. After more than a decade with a fixed exchange rate versus the euro, and following an unprecedented economic crisis in 2008-09, the deterioration in Estonian competitiveness was remarkable: if we take into account only the past five years, the Estonian price level is 25% higher than in 2005, while for most of the eurozone countries it is limited to an increase of 10%. Coherently, the increase in compensations was sensibly higher than in the eurozone, and higher than productivity.

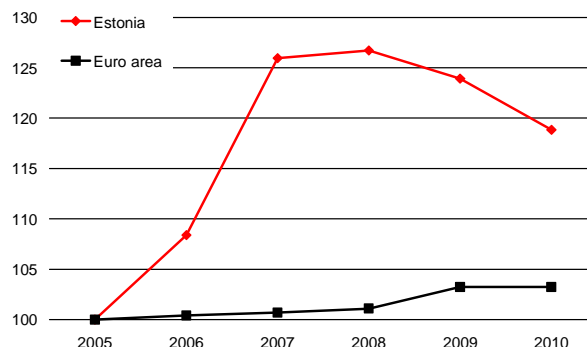
That is why we believe that the Estonian competitiveness issue – as for the other two Baltic states – is not a mere obsession, but something to be faced in the next future. If cost competitiveness is no longer the main driver of the economy as it was during the nineties, a broader concept of competitiveness (education, productivity, infrastructures, efficiency of the public sector, etc.) will have to be enhanced, in our view, to maintain an already weakened manufacturing sector in the country.

**PRICE COMPETITIVENESS DETERIORATED**

Inflation in Europe (HICP - all items, 2005=100)



Real compensation of employees per head (2005=100)



Source: Eurostat, UniCredit Research

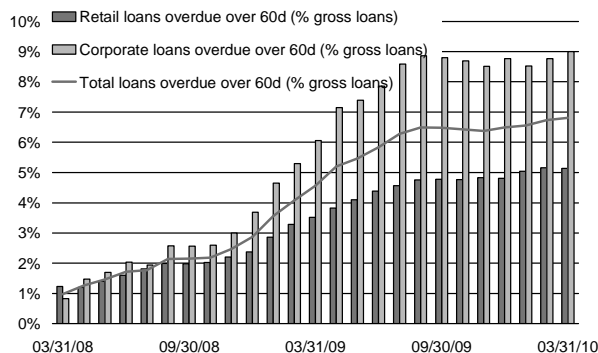
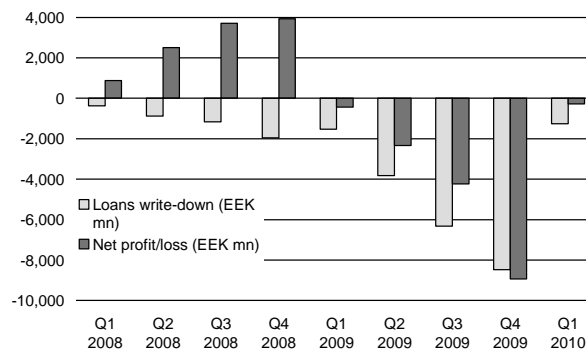
## Estonian banking sector: return to normality takes time

**Fabio Mucci**  
 (UniCredit CEE Strategic  
 Analysis)  
[fabio.mucci@unicreditgroup.eu](mailto:fabio.mucci@unicreditgroup.eu)

The Estonian banking sector has been seriously affected by the global credit crunch and economic recession. Deceleration in lending activity became visible in late spring 2008 and intensified in the aftermath of the Lehman collapse. Retail credit (both for consumer and mortgage financing) and the corporate segment have all been affected. To date, no major signs of re-starting in borrowing activity have emerged: in the first 3M of this year, lending activity remained subdued, with new business volumes anchored at historical lows particularly in the real estate segment. Overall, total outstanding loan volumes growth was still in negative territory down by -0.6% vs. end of last year. Funding from abroad continued to decrease reflecting the rebalancing of the Nordic players' exposure (which dominates the market).

The aggregate banking sector recorded a loss last year but banks' capitalization levels have remained fairly strong, with the average total capital ratio for the Estonian banking sector at 22.1% in March 2010 (up from 16.2% at the beginning of 2008) well above the minimum regulatory requirement (set at 10%), the support from mother banks having been crucial to avoid structural consequences. The sharp adjustment in economic activity, which took place during 2009, clearly had an impact on the pace of revenues generation. Overall, total banking system net revenues went down by more than 25% last year. The skyrocketing increase in the level of provisioning on the back of fast deterioration in the quality of loan books was, however, mainly responsible for the loss recorded last year. The banks' write-down increased by more than 400%, topping at EEK 8.5bn (EUR 0.5bn) at the end of 2009. The growth rate of problematic loans has sensibly slowed down in recent months but the peak in credit quality problems will probably be delayed to around mid/end of 2011. The banks' write-down of loans amounted to EEK 1.3bn in 1Q10, more than half the level recorded in the previous quarters.

The deep recession will have long-lasting consequences, in our view. The credit market will continue to be characterized by sluggish dynamic, with loans growth expected to turn into positive territory (on a yearly basis) only around mid of this year. A large part of the Estonian banking sector will continue to keep a conservative approach toward lending. Despite some stabilization in the need for external funding, funding from parent banks will remain crucial. Pressures on the banks' margins are expected to ease somewhat on the back of still tight credit conditions, but full recovery in the banks' profitability will likely take some time. Under the current scenario, the risk of a loss continues to be high this year, with profitability returning positive only starting from 2011.

**CREDIT QUALITY STILL DETERIORATING**
**Problematic assets still rising**

**The banking sector under pressure**


Source: local CBs, BIS, UniCredit CEE Strategic Analysis

**THE ESTONIAN BANKING SECTOR**

	2007	2008	2009	2010f	2011f	2012E-2015f
Total loans (% yoy)	33.3%	7.9%	-4.8%	2.5%	3.2%	5.4%
Total deposits (% yoy)	13.8%	6.0%	5.9%	4.5%	5.2%	6.7%
Loan-to-deposits ratio (%)	1.96	1.99	1.79	1.76	1.72	1.64 (EOP)
Risk-adjusted revenues (EEK bn)	11.8	8.4	-5.0	2.4	4.1	9.4 (EOP)
Overdue loans more than 60 days (% gross loans)	0.7%	2.9%	6.5%	8.0%	9.0%	6.0% (EOP)
Return on assets (%)	2.4%	1.2%	-2.8%	-0.5%	0.1%	1.0% (EOP)
External liabilities (% of total liabilities)	52.9%	54.1%	52.2%	50.1%	48.0%	43.6% (EOP)
Cost of risk (provisions over average loans, bp)	28	81	521	214	148	38 (EOP)

Source: local CBs, UniCredit CEE Strategic Analysis

**Eurozone enlargement: a bumpy road ahead**

**Author:**  
**Matteo Ferrazzi**  
[Matteo.ferrazzi@unicreditgroup.de](mailto:Matteo.ferrazzi@unicreditgroup.de)

In contrast to other countries that are EU members but have not adopted the euro, all the Eastern European members have the obligation to adopt the common currency in the future, provided the necessary level of nominal convergence has been achieved (the well-known Maastricht criteria, which provide the requirements for public finances, price stability, interest rates, and stability of the exchange rate, the latter through the participation in the ERM II mechanism).

On the contrary, UK, Denmark and Sweden are EU members but outside the eurozone and without any obligation to join the common currency. The UK, when the Maastricht Treaty was concluded in 1992, was granted accession with an opt-out clause: this means the UK is not obliged to adopt the euro. Denmark has an opt-out clause as well: the Maastricht Treaty was rejected in a referendum in 1992; currently the Danish crown is in the ERM II mechanism and it is trading within a very narrow band. Sweden chose to stay outside the exchange rate mechanism: hence, it can be considered having an opt-out clause *de facto*. Following the introduction of the euro in 1999, Greece joined in 2001, Cyprus and Malta in 2008; Slovenia in January 2007 and Slovakia in January 2009.

What's next? Is any other enlargement at the horizon? Following the Greek crisis, both sides (EU authorities and the Central Eastern European countries) are showing less enthusiasm towards any eurozone enlargement. Previously, most of the Central European countries were

keen to adopt the euro, considered as a good anchor to help face the crisis but, in the wake of the eurozone's debt crisis, some EU members are in less of a hurry than just a few months ago.

Anyway, we should be able to put into perspective the current European difficulties. Euro adoption for Central Eastern European countries is more a question of "when" rather than "if". All the Central Eastern European countries that are EU members will join the common currency during the next decade. At the moment, the Baltic countries are the most committed to adopt the common currency as soon as possible. After Estonia, Latvia and Lithuania are to follow in 2013-14. For the Baltic states, it also represents the best "exit strategy" from the fixed exchange rate regime and the possible emergence of devaluation pressures on their currencies. We expect Bulgaria and Hungary to join the eurozone in 2014, Romania around 2015. Poland and the Czech Republic will be in the last group: they have not set target dates and they can join the common currency only in 2015-18.

## Disclaimer

Our recommendations are based on information obtained from, or are based upon public information sources that we consider to be reliable but for the completeness and accuracy of which we assume no liability. All estimates and opinions included in the report represent the independent judgment of the analysts as of the date of the issue. We reserve the right to modify the views expressed herein at any time without notice. Moreover, we reserve the right not to update this information or to discontinue it altogether without notice.

This analysis is for information purposes only and (i) does not constitute or form part of any offer for sale or subscription of or solicitation of any offer to buy or subscribe for any financial, money market or investment instrument or any security, (ii) is neither intended as such an offer for sale or subscription of or solicitation of an offer to buy or subscribe for any financial, money market or investment instrument or any security nor (iii) as an advertisement thereof. The investment possibilities discussed in this report may not be suitable for certain investors depending on their specific investment objectives and time horizon or in the context of their overall financial situation. The investments discussed may fluctuate in price or value. Investors may get back less than they invested. Changes in rates of exchange may have an adverse effect on the value of investments. Furthermore, past performance is not necessarily indicative of future results. In particular, the risks associated with an investment in the financial, money market or investment instrument or security under discussion are not explained in their entirety.

This information is given without any warranty on an "as is" basis and should not be regarded as a substitute for obtaining individual advice. Investors must make their own determination of the appropriateness of an investment in any instruments referred to herein based on the merits and risks involved, their own investment strategy and their legal, fiscal and financial position. As this document does not qualify as an investment recommendation or as a direct investment recommendation, neither this document nor any part of it shall form the basis of, or be relied on in connection with or act as an inducement to enter into, any contract or commitment whatsoever. Investors are urged to contact their bank's investment advisor for individual explanations and advice.

Neither UniCredit Bank AG, UniCredit Bank AG London Branch, UniCredit CAIB AG, UniCredit Bank AG Milan Branch, UniCredit CAIB Securities UK Ltd., UniCredit Securities, UniCredit Menkul Değerler A.Ş., UniCredit Bulbank, Zagrebačka banka, UniCredit Bank, Bank Pekao, Yapi Kredi, UniCredit Tiriac Bank, ATFBank, nor any of their respective directors, officers or employees nor any other person accepts any liability whatsoever (in negligence or otherwise) for any loss howsoever arising from any use of this document or its contents or otherwise arising in connection therewith.

This analysis is being distributed by electronic and ordinary mail to professional investors, who are expected to make their own investment decisions without undue reliance on this publication, and may not be redistributed, reproduced or published in whole or in part for any purpose.

### Responsibility for the content of this publication lies with:

- a) UniCredit Bank AG, Am Tucherpark 16, 80538 Munich, Germany, (also responsible for the distribution pursuant to §34b WpHG). The company belongs to UCI Group. Regulatory authority: "BaFin" – Bundesanstalt für Finanzdienstleistungsaufsicht, Lurgiallee 12, 60439 Frankfurt, Germany.
- b) UniCredit Bank AG London Branch, Moor House, 120 London Wall, London EC2Y 5ET, United Kingdom. Regulatory authority: "BaFin" – Bundesanstalt für Finanzdienstleistungsaufsicht, Lurgiallee 12, 60439 Frankfurt, Germany and subject to limited regulation by the Financial Services Authority (FSA), 25 The North Colonnade, Canary Wharf, London E14 5HS, United Kingdom. Details about the extent of our regulation by the Financial Services Authority are available from us on request.
- c) UniCredit Bank AG Milan Branch, Via Tommaso Grossi, 10, 20121 Milan, Italy, duly authorized by the Bank of Italy to provide investment services. Regulatory authority: "Bank of Italy", Via Nazionale 91, 00184 Roma, Italy and Bundesanstalt für Finanzdienstleistungsaufsicht, Lurgiallee 12, 60439 Frankfurt, Germany.
- The UniCredit CAIB Group, consisting of
  - d) UniCredit CAIB AG, Julius-Tandler-Platz 3, 1090 Vienna, Austria  
Regulatory authority: Finanzmarktaufsichtsbehörde (FMA), Praterstrasse 23, 1020 Vienna, Austria
  - e) UniCredit CAIB Securities UK Ltd., Moor House, 120 London Wall, London EC2Y 5ET, United Kingdom  
Regulatory authority: Financial Services Authority (FSA), 25 The North Colonnade, Canary Wharf, London E14 5HS, United Kingdom
  - f) UniCredit Securities, Boulevard Ring Office Building, 17/1 Chistoprudni Boulevard, Moscow 101000, Russia  
Regulatory authority: Federal Service on Financial Markets, 9 Leninsky prospekt, Moscow 119991, Russia
  - g) UniCredit Menkul Değerler A.Ş., Büyükdere Cad. No. 195, Büyükdere Plaza Kat. 5, 34394 Levent, Istanbul, Turkey  
Regulatory authority: Sermaye Piyasası Kurulu – Capital Markets Board of Turkey, Eskişehir Yolu 8.Km No:156, 06530 Ankara, Turkey
  - h) UniCredit Bulbank, Sveta Nedelya Sq. 7, BG-1000 Sofia, Bulgaria  
Regulatory authority: Financial Supervision Commission, 33 Shar Planina str.,1303 Sofia, Bulgaria
  - i) Zagrebačka banka, Paromlinska 2, HR-10000 Zagreb, Croatia  
Regulatory authority: Croatian Agency for Supervision of Financial Services, Miramarska 24B, 10000 Zagreb, Croatia
  - j) UniCredit Bank, Na Příkopě 858/20, CZ-11121 Prague, Czech Republic  
Regulatory authority: CNB Czech National Bank, Na Příkopě 28, 115 03 Praha 1, Czech Republic
  - k) Bank Pekao, ul. Grzybowska 53/57, PL-00-950 Warsaw, Poland  
Regulatory authority: Polish Financial Supervision Authority, Plac Powstańców Warszawy 1, 00-950 Warsaw, Poland
  - l) UniCredit Bank, Prechistsenskaya emb. 9, RF-19034 Moscow, Russia  
Regulatory authority: Federal Service on Financial Markets, 9 Leninsky prospekt, Moscow 119991, Russia
  - m) UniCredit Bank, Šancova 1/A, SK-813 33 Bratislava, Slovakia  
Regulatory authority: National Bank of Slovakia, Stefanikovo nam. 10/19, 967 01 Kremnica, Slovakia
  - n) Yapi Kredi, Yapi Kredi Plaza D Blok, Levent, TR-80620 Istanbul, Turkey  
Regulatory authority: Sermaye Piyasası Kurulu – Capital Markets Board of Turkey, Eskişehir Yolu 8.Km No:156, 06530 Ankara, Turkey
  - o) UniCredit Tiriac Bank, Ghetariilor Street 23-25, RO-014106 Bucharest 1, Romania  
Regulatory authority: CNVM, Romanian National Securities Commission, Foişorului street, no.2, sector 3, Bucharest, Romania
  - p) ATFBank, 100 Furmanov Str., KZ-050000 Almaty, Kazakhstan  
Agency of the Republic of Kazakhstan on the state regulation and supervision of financial market and financial organisations, 050000, Almaty, 67 Aiteke Bi str., Kazakhstan

### POTENTIAL CONFLICTS OF INTEREST

UniCredit Bank AG acts as a Specialist or Primary Dealer in government bonds issued by the Italian, Portuguese and Greek Treasury. Main tasks of the Specialist are to participate with continuity and efficiency to the governments' securities auctions, to contribute to the efficiency of the secondary market through market making activity and quoting requirements and to contribute to the management of public debt and to the debt issuance policy choices, also through advisory and research activities.

### ANALYST DECLARATION

The author's remuneration has not been, and will not be, geared to the recommendations or views expressed in this study, neither directly nor indirectly.

### ORGANIZATIONAL AND ADMINISTRATIVE ARRANGEMENTS TO AVOID AND PREVENT CONFLICTS OF INTEREST

To prevent or remedy conflicts of interest, UniCredit Bank AG, UniCredit Bank AG London Branch, UniCredit CAIB AG, UniCredit Bank AG Milan Branch, UniCredit CAIB Securities UK Ltd., UniCredit Securities, UniCredit Menkul Değerler A.Ş., UniCredit Bulbank, Zagrebačka banka, UniCredit Bank, Bank Pekao, Yapi Kredi, UniCredit Tiriac Bank, ATFBank have established the organizational arrangements required from a legal and supervisory aspect, adherence to which is monitored by its compliance department. Conflicts of interest arising are managed by legal and physical and non-physical barriers (collectively referred to as "Chinese Walls") designed to restrict the flow of information between one area/department of UniCredit Bank AG, UniCredit Bank AG London Branch, UniCredit CAIB AG, UniCredit Bank AG Milan Branch, UniCredit CAIB Securities UK Ltd., UniCredit Securities, UniCredit Menkul Değerler A.Ş., UniCredit Bulbank, Zagrebačka banka, UniCredit Bank, Bank Pekao, Yapi Kredi, UniCredit Tiriac Bank, ATFBank and another. In particular, Investment Banking units, including corporate finance, capital market activities, financial advisory and other capital raising activities, are segregated by physical and non-physical boundaries from Markets Units, as well as the research department. In the case of equities execution by UniCredit Bank AG Milan Branch, other than as a matter of client facilitation or delta hedging of OTC and listed derivative positions, there is no proprietary trading. Disclosure of publicly available conflicts of interest and other material interests is made in the research. Analysts are supervised and managed on a day-to-day basis by line managers who do not have responsibility for Investment Banking activities, including corporate finance activities, or other activities other than the sale of securities to clients.



**ADDITIONAL REQUIRED DISCLOSURES UNDER THE LAWS AND REGULATIONS OF JURISDICTIONS INDICATED****Notice to Austrian investors**

This document does not constitute or form part of any offer for sale or subscription of or solicitation of any offer to buy or subscribe for any securities and neither this document nor any part of it shall form the basis of, or be relied on in connection with or act as an inducement to enter into, any contract or commitment whatsoever. This document is confidential and is being supplied to you solely for your information and may not be reproduced, redistributed or passed on to any other person or published, in whole or part, for any purpose.

**Notice to Czech investors**

This report is intended for clients of UniCredit Bank AG, UniCredit Bank AG London Branch, UniCredit CAIB AG, UniCredit CAIB Securities UK Ltd. or UniCredit Bank AG Milan Branch in the Czech Republic and may not be used or relied upon by any other person for any purpose.

**Notice to Italian investors**

This document is not for distribution to retail clients as defined in article 26, paragraph 1(e) of Regulation n. 16190 approved by CONSOB on October 29, 2007. In the case of a short note, we invite the investors to read the related company report that can be found on UniCredit Research website [www.research.unicreditgroup.eu](http://www.research.unicreditgroup.eu).

**Notice to Russian investors**

As far as we are aware, not all of the financial instruments referred to in this analysis have been registered under the federal law of the Russian Federation "On the Securities Market" dated April 22, 1996, as amended, and are not being offered, sold, delivered or advertised in the Russian Federation.

**Notice to Turkish investors**

Investment information, comments and recommendations stated herein are not within the scope of investment advisory activities. Investment advisory services are provided in accordance with a contract of engagement on investment advisory services concluded with brokerage houses, portfolio management companies, non-deposit banks and the clients. Comments and recommendations stated herein rely on the individual opinions of the ones providing these comments and recommendations. These opinions may not suit your financial status, risk and return preferences. For this reason, to make an investment decision by relying solely on the information stated here may not result in consequences that meet your expectations.

**Notice to Investors in Japan**

This document does not constitute or form part of any offer for sale or subscription for or solicitation of any offer to buy or subscribe for any securities and neither this document nor any part of it shall form the basis of, or be relied on in connection with or act as an inducement to enter into, any contract or commitment whatsoever.

**Notice to UK investors**

This communication is directed only at clients of UniCredit Bank AG, UniCredit Bank AG London Branch, UniCredit CAIB AG, UniCredit CAIB Securities UK Ltd. or UniCredit Bank AG Milan Branch who (i) have professional experience in matters relating to investments or (ii) are persons falling within Article 49(2)(a) to (d) ("high net worth companies, unincorporated associations, etc.") of the United Kingdom Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 or (iii) to whom it may otherwise lawfully be communicated (all such persons together being referred to as "relevant persons"). This communication must not be acted on or relied on by persons who are not relevant persons. Any investment or investment activity to which this communication relates is available only to relevant persons and will be engaged in only with relevant persons.

**Notice to U.S. investors**

This report is being furnished to U.S. recipients in reliance on Rule 15a-6 ("Rule 15a-6") under the U.S. Securities Exchange Act of 1934, as amended. Each U.S. recipient of this report represents and agrees, by virtue of its acceptance thereof, that it is such a "major U.S. institutional investor" (as such term is defined in Rule 15a-6) and that it understands the risks involved in executing transactions in such securities. Any U.S. recipient of this report that wishes to discuss or receive additional information regarding any security or issuer mentioned herein, or engage in any transaction to purchase or sell or solicit or offer the purchase or sale of such securities, should contact a registered representative of UniCredit Capital Markets, Inc. ("UCI Capital Markets").

Any transaction by U.S. persons (other than a registered U.S. broker-dealer or bank acting in a broker-dealer capacity) must be effected with or through UCI Capital Markets.

The securities referred to in this report may not be registered under the U.S. Securities Act of 1933, as amended, and the issuer of such securities may not be subject to U.S. reporting and/or other requirements. Available information regarding the issuers of such securities may be limited, and such issuers may not be subject to the same auditing and reporting standards as U.S. issuers.

The information contained in this report is intended solely for certain "major U.S. institutional investors" and may not be used or relied upon by any other person for any purpose. Such information is provided for informational purposes only and 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 U.S. federal or state securities laws, rules or regulations. The investment opportunities discussed in this report may be unsuitable for certain investors depending on their specific investment objectives, risk tolerance and financial position. In jurisdictions where UCI Capital Markets is not registered or licensed to trade in securities, commodities or other financial products, transactions may be executed only in accordance with applicable law and legislation, which may vary from jurisdiction to jurisdiction and which may require that a transaction be made in accordance with applicable exemptions from registration or licensing requirements.

The information in this publication is based on carefully selected sources believed to be reliable, but UCI Capital Markets does not make any representation with respect to its completeness or accuracy. All opinions expressed herein reflect the author's judgment at the original time of publication, without regard to the date on which you may receive such information, and are subject to change without notice.

UCI Capital Markets may have issued other reports that are inconsistent with, and reach different conclusions from, the information presented in this report. These publications 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 future performance, and no representation or warranty, express or implied, is provided in relation to future performance.

UCI Capital Markets and any company affiliated with it may, with respect to any securities discussed herein: (a) take a long or short position and buy or sell such securities; (b) act as investment and/or commercial bankers for issuers of such securities; (c) act as market makers for such securities; (d) serve on the board of any issuer of such securities; and (e) act as paid consultant or advisor to any issuer.

The information contained herein may include forward-looking statements within the meaning of U.S. 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 expectations include, without limitation: political uncertainty, changes in general 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 and in the competitive environment, and other factors relating to the foregoing. All forward-looking statements contained in this report are qualified in their entirety by this cautionary statement

**This document may not be distributed in Canada or Australia.**

**UniCredit Research\***

Thorsten Weinelt, CFA  
Global Head of Research & Chief Strategist  
+49 89 378-15110  
thorsten.weinelt@unicreditgroup.de

Dr. Ingo Heimig  
Head of Research Operations  
+49 89 378-13952  
ingo.heimig@unicreditgroup.de

**Economics & FI/FX Research**

Marco Annunziata, Ph.D., Chief Economist  
+44 20 7826-1770  
marco.annunziata@unicreditgroup.eu

**Economics & Commodity Research**

**Global Economics**

Dr. Davide Stroppa, Global Economist  
+39 02 8862-2890  
davide.stroppa@unicreditgroup.de

**European Economics**

Andreas Rees, Chief German Economist  
+49 89 378-12576  
andreas.rees@unicreditgroup.de

Marco Valli, Chief Italian Economist  
+39 02 8862-8688  
marco.valli@unicreditgroup.de

Stefan Bruckbauer, Chief Austrian Economist  
+43 50505 41951  
stefan.bruckbauer@unicreditgroup.at

Tullia Bucco  
+39 02 8862-2079  
tullia.bucco@unicreditgroup.de

Chiara Corsa  
+39 02 8862-2209  
chiara.corsa@unicreditgroup.de

Dr. Loredana Federico  
+39 02 8862-2209  
loredana.federico@unicreditgroup.eu

Alexander Koch, CFA  
+49 89 378-13013  
alexander.koch1@unicreditgroup.de

Chiara Silvestre  
chiara.silvestre@unicreditgroup.de

**US Economics**

Dr. Harm Bandholz, CFA  
+1 212 672 5957  
harm.bandholz@us.unicreditgroup.eu

**Commodity Research**

Jochen Hitzfeld  
+49 89 378-18709  
jochen.hitzfeld@unicreditgroup.de

Nikolaus Keis  
+49 89 378-12560  
nikolaus.keis@unicreditgroup.de

**EEMEA Economics & FI/FX Strategy**

Cevdet Akcay, Ph.D., Chief Economist, Turkey  
+90 212 319-8430, cevdet.akcay@yapikredi.com.tr

Matteo Ferrazzi, Economist, EEMEA  
+39 02 8862-8600, matteo.ferrazzi@unicreditgroup.eu

Dmitry Gourov, Economist, EEMEA  
+43 50505 823-64, dmitry.gourov@caib.unicreditgroup.eu

Hans Holzhaecker, Chief Economist, Kazakhstan  
+7 727 244-1463, h.holzhaecker@atfbank.kz

Anna Kopetz, Economist, Baltics  
+43 50505 823-64, anna.kopetz@caib.unicreditgroup.eu

Marcin Mrowiec, Chief Economist, Poland  
+48 22 656-0678, marcin.mrowiec@pekao.com.pl

Vladimir Osakovskiy, Ph.D., Head of Strategy and Research, Russia  
+7 495 258-7258 ext.7558, vladimir.osakovskiy@unicreditgroup.ru

Rozália Pál, Ph.D., Chief Economist, Romania  
+40 21 203-2376, rozalia.pal@unicredit.ro

Kristofor Pavlov, Chief Economist, Bulgaria  
+359 2 9269-390, kristofor.pavlov@unicreditgroup.bg

Goran Šaravanja, Chief Economist, Croatia  
+385 1 6006-678, goran.saravanja@unicreditgroup.zaba.hr

Pavel Sobisek, Chief Economist, Czech Republic  
+420 2 211-12504, pavel.sobisek@unicreditgroup.cz

Gyula Toth, Economist/Strategist, EEMEA  
+43 50505 823-62, gyula.toth@caib.unicreditgroup.eu

Jan Toth, Chief Economist, Slovakia  
+421 2 4950-2267, jan.toth@unicreditgroup.sk

**Global FI/FX Strategy**

Michael Rottmann, Head  
+49 89 378-15121, michael.rottmann1@unicreditgroup.de

Dr. Luca Cazzulani, Deputy Head, FI Strategy  
+39 02 8862-0640, luca.cazzulani@unicreditgroup.de

Chiara Cremonesi, FI Strategy  
+44 20 7826-1771, chiara.cremonesi@unicreditgroup.eu

Dr. Stephan Maier, FX Strategy  
+39 02 8862-8604, stephan.maier@unicreditgroup.eu

Giuseppe Maraffino, FI Strategy  
+39 02 8862-2027, giuseppe.maraffino@unicreditgroup.de

Armin Mekelburg, FX Strategy  
+49 89 378-14307, armin.mekelburg@unicreditgroup.de

Roberto Mialich, FX Strategy  
+39 02 8862-0658, roberto.mialich@unicreditgroup.de

Kornelius Purps, FI Strategy  
+49 89 378-12753, kornelius.purps@unicreditgroup.de

Herbert Stocker, Technical Analysis  
+49 89 378-14305, herbert.stocker@unicreditgroup.de

**Publication Address**

**UniCredit Research**  
Corporate & Investment Banking  
UniCredit Bank AG  
Arabellastrasse 12, D-81925 Munich  
Tel. +49 89 378-12559  
Fax +49 89 378-13024

**Bloomberg**  
UNICREDIT GROUPR

**Internet**  
www.research.unicreditgroup.eu

\* UniCredit Research is the joint research department of UniCredit Bank AG (UniCredit Bank), UniCredit CAIB Group (UniCredit CAIB), UniCredit Securities (UniCredit Securities), UniCredit Menkul Değerler A.Ş. (UniCredit Menkul), UniCredit Bulbank, Zagrebačka banka, UniCredit Bank, Bank Pekao, Yapi Kredi, UniCredit Tiriac Bank and ATFBank.