



NATIONAL BANK OF ROMANIA

# FINANCIAL STABILITY REPORT

2013





**NATIONAL BANK OF ROMANIA**

# **Financial Stability Report**

**2013**

## **Note**

*The Financial Stability Report was prepared by the Financial Stability Department and coordinated by Mr. Cristian Popa, Deputy Governor of the National Bank of Romania.*

*The Report was examined by the Supervisory Committee in its meeting on 9 September 2013. These bodies approved the main assessments of the Report and its final version was approved by the National Bank of Romania Board in its meeting on 17 October 2013.*

*The analyses draw on the information available by 10 October 2013.*

*All rights reserved.*

*Reproduction for educational and non-commercial purposes is permitted provided that the source is acknowledged.*

*National Bank of Romania, 25 Lipscani Street, postal code 030031, Bucharest*

*Telephone: 4021/312 43 75; fax: 4021/314 97 52*

*Website: <http://www.bnr.ro>.*

ISSN 1843-3251 (print)

ISSN 1843-326X (online)

## Abbreviations

|                 |   |
|-----------------|---|
| <b>BIS</b>      | Bank for International Settlements          |
| <b>BSE</b>      | Bucharest Stock Exchange                    |
| <b>CCR</b>      | Central Credit Register                     |
| <b>CDS</b>      | credit default swaps                        |
| <b>CEE</b>      | Central and Eastern Europe                  |
| <b>EBA</b>      | European Banking Authority                  |
| <b>EBIT</b>     | earnings before interest and taxes          |
| <b>EC</b>       | European Commission                         |
| <b>ECB</b>      | European Central Bank                       |
| <b>ESA</b>      | European System of Accounts                 |
| <b>ESRB</b>     | European Systemic Risk Board                |
| <b>EU</b>       | European Union                              |
| <b>Eurostat</b> | Statistical Office of the European Union    |
| <b>FDI</b>      | foreign direct investment                   |
| <b>FSA</b>      | Financial Supervisory Authority             |
| <b>GDP</b>      | gross domestic product                      |
| <b>GVA</b>      | gross value added                           |
| <b>IFRS</b>     | International Financial Reporting Standards |
| <b>IMF</b>      | International Monetary Fund                 |
| <b>LTV</b>      | loan to value                               |
| <b>MPF</b>      | Ministry of Public Finance                  |
| <b>NBFIs</b>    | non-bank financial institutions             |
| <b>NBR</b>      | National Bank of Romania                    |
| <b>NIS</b>      | National Institute of Statistics            |
| <b>NPLs</b>     | non-performing loans                        |
| <b>NSC</b>      | National Securities Commission              |
| <b>NTRO</b>     | National Trade Register Office              |
| <b>PIR</b>      | Payment Incidents Register                  |
| <b>ROA</b>      | return on assets                            |
| <b>ROBOR</b>    | Romanian Bid Offered Interest Rate          |
| <b>ROE</b>      | return on equity                            |
| <b>SMEs</b>     | small- and medium-sized enterprises         |



# Contents

|  |           |
|--|-----------|
| <b>1. OVERVIEW.....</b>  | <b>7</b>  |
| <b>2. INTERNATIONAL ECONOMIC AND FINANCIAL ENVIRONMENT.....</b>  | <b>17</b> |
| <b>3. FINANCIAL SYSTEM AND ITS RELATED RISKS.....</b>  | <b>24</b> |
| 3.1. Structure of the financial system.....  | 24        |
| 3.2. Banking sector.....   | 26        |
| 3.2.1. Challenges to the Romanian banking sector in the context of current<br>vulnerabilities of the euro area financial system..... | 26        |
| 3.2.2. Structural developments.....  | 27        |
| 3.2.3. Aggregate balance sheet of credit institutions.....   | 31        |
| 3.2.3.1. Dynamics of bank assets.....  | 32        |
| 3.2.3.2. Developments in own, raised and borrowed funds.....   | 36        |
| 3.2.4. Capital adequacy.....   | 38        |
| 3.2.4.1. Developments in own funds of banks, Romanian legal entities.....  | 38        |
| 3.2.4.2. Analysis of capital adequacy indicators.....  | 41        |
| 3.2.5. Loans and credit risk.....  | 46        |
| 3.2.5.1. Main credit developments.....   | 47        |
| 3.2.5.2. Loan quality.....   | 54        |
| 3.2.6. Liquidity risk.....   | 59        |
| 3.2.7. Market risk.....  | 64        |
| 3.2.8. Profitability and efficiency.....   | 66        |
| 3.2.9. Results of the banking sector solvency stress test.....   | 69        |
| 3.3. Non-bank financial sector.....  | 70        |
| 3.3.1. Insurance sector.....   | 70        |
| 3.3.2. Private pension funds.....  | 72        |
| 3.3.3. Non-bank financial institutions.....  | 74        |
| 3.4. Financial markets.....  | 78        |
| 3.4.1. Money market.....   | 78        |
| 3.4.2. Government securities market.....   | 82        |
| 3.4.3. Foreign exchange market.....  | 86        |
| 3.4.4. Capital market.....   | 88        |

|   |            |
|---|------------|
| <b>4. RISKS RELATED TO DOMESTIC ECONOMIC AND FINANCIAL DEVELOPMENTS.....</b>                            | <b>91</b>  |
| 4.1. Domestic macroeconomic developments.....   | 91         |
| 4.1.1. Real sector.....   | 91         |
| 4.1.2. Public sector.....   | 94         |
| 4.2. Corporate and household lending.....   | 96         |
| 4.3. External balance.....  | 105        |
| 4.3.1. Current account deficit.....   | 105        |
| 4.3.2. Capital flows.....   | 111        |
| <b>5. NON-FINANCIAL CORPORATIONS AND HOUSEHOLDS.....</b>  | <b>116</b> |
| 5.1. Risks generated by non-financial corporations.....   | 116        |
| 5.1.1. Non-financial corporations' economic and financial results.....                                  | 116        |
| 5.1.2. Payment discipline of non-financial corporations.....  | 120        |
| 5.2. Risks stemming from the households' sector.....  | 127        |
| 5.2.1. Households' balance sheet and saving behaviour.....  | 127        |
| 5.2.2. Households' capacity to service debt.....  | 132        |
| 5.3. Risks generated by the real-estate sector and mortgage-backed lending.....                         | 138        |
| <b>6. FINANCIAL SYSTEM INFRASTRUCTURE – STABILITY OF PAYMENT AND SECURITIES SETTLEMENT SYSTEMS.....</b> | <b>144</b> |
| 6.1. Stability of ReGIS payment system.....   | 144        |
| 6.2. Stability of SENT – the small-value payment system.....  | 146        |
| 6.3. Securities settlement systems.....   | 148        |
| 6.4. The extension of central bank's tasks in the field of payments.....                                | 153        |
| <b>7. RECENT DEVELOPMENTS AND OUTLOOK.....</b>  | <b>154</b> |
| 7.1. CRD IV/CRR impact on the Romanian banking system.....  | 154        |
| 7.1.1. Capital requirements laid down in CRD IV/CRR.....  | 155        |
| 7.1.2. Credit institutions' liquidity in the context of the CRR.....                                    | 162        |
| 7.2. Recent developments in the prudential regulatory framework.....                                    | 164        |
| 7.2.1. The National Committee for Macroprudential Oversight.....  | 164        |
| 7.2.2. The Banking Union.....   | 165        |

# 1 OVERVIEW

---

*Financial stability has remained robust since the release of the previous Report, in September 2012. Financial stability has stood up to the ongoing challenges amid the further difficult international environment, the improvement in the balance of risks generated by domestic macroeconomic developments notwithstanding. The major weaknesses of the banking sector, namely the significant level of non-performing loans – in the context of the negative dynamics of lending to the private sector – and the faster cross-border deleveraging, are further manageable. Solvency, provisioning and liquidity levels have continued to be adequate, enabling the banking sector to overcome any moderately unfavourable developments without major difficulties. The main challenges to financial stability over the period ahead are posed, the same as in most EU economies, by the sustainable resumption of lending, against the background of ongoing and even faster deleveraging internationally, and the adequate management of bank asset quality, also by striking a functional balance between the costs and benefits of various alternatives in addressing non-performing exposures.*

*The successful completion of the precautionary financing arrangement with the European Union, the International Monetary Fund and the World Bank and the signing of a similar agreement conducive to the furthering of reforms meant to consolidate domestic macrostability and the Romanian financial system contribute to the preservation of financial stability.*

The domestic banking sector has continued to be well insulated against detrimental developments both locally and internationally. Firstly, the level and quality of own funds has remained adequate: (i) the solvency ratio stood at a comfortable 14.7 percent in June 2013, considerably above the minimum required value of 8 percent; (ii) own funds consist mainly of items with a high and very high loss-absorption capacity (Tier 1 capital ratio of 13.6 percent in June 2013), and (iii) the NBR decided to keep in place prudential filters when calculating own funds and bank prudential indicators throughout 2013 (so that, *de facto*, the solvency indicators continue to be around 4 percentage points higher than the reported levels), before gradually phasing out these filters during 2014-2018, following the implementation of Basel III additional capital requirements.

The results of the banking sector solvency stress test spanning 2013 Q3 – 2015 Q2 show that, overall, credit institutions remain resilient to significant adverse macroeconomic shocks, further maintaining an adequate level of the solvency ratio. Under an adverse scenario, incorporating a depreciation of the domestic currency by over 20 percent and a prolonged recession, assuming default rates comparable to those seen during 2009, the solvency ratio of the Romanian banking system (at aggregate level) would decrease by approximately 4 percentage points to 10.8 percent, remaining above the prudential threshold set by the NBR. As regards a few small-sized credit institutions, their lower share of interest-bearing assets in total assets, together with their strategy of covering fixed costs via above-average interest margins, amid a riskier loan portfolio structure (meaning that the ratio of risk-weighted assets to total assets is considerably higher for these banks compared to the rest of the sector) as well as some specific issues relating to the management of interest rate risk, could call for additional capital or taking steps towards reducing the level of risk-weighted assets.



Secondly, the degree of NPL coverage with IFRS provisions and prudential filters has remained at a comfortable level, i.e. 89.5 percent as of August 2013, one of the highest readings in the region. Such a prudent stance adds to the constraints still affecting credit institutions' financial results.

In 2012, the domestic banking sector incurred losses (lei 2.3 billion), owing to the considerable increase in the volume of credit risk provisions, against the backdrop of higher NPL volumes and collateral revaluation. Nevertheless, the profitability levels of larger banks generally stayed in positive territory. At the end of August 2013, the domestic banking sector reported a profit of lei 1.5 billion on account of lower provisioning costs when compared to the same period of the previous year, as well as the reduction in financing costs amid the improvement in Romania's sovereign risk perception. The ROA and ROE profitability indicators returned to positive territory, i.e. 0.6 percent and 5.9 percent respectively. The sustainable resumption of lending to the private sector is, however, the key prerequisite for financial results to remain positive over the longer term.

The relatively high non-performing loan ratio, which has a detrimental impact on bank profitability, is also due to bank portfolios further comprising a significant share of borrowers with overdue loans, including those with a proven very low likelihood of repayment. For instance, as regards the portfolio of household loans, around 70 percent of non-performing borrowers (recipients of either real-estate credit or mortgage-backed consumer credit) had been in a state of default for more than a year or had recorded multiple defaults as of June 2013. Banks resorted on a relatively wide scale to loan restructuring/rescheduling and foreclosure, yet the effectiveness of these NPL management techniques has so far remained below potential. Other two alternatives, i.e. disposal of claims and debt cancellation, were less resorted to, although they might prove more effective in cleaning up credit institutions' balance sheets. The most visible positive effect of a wider recourse to the aforementioned solutions would be the improved image of the domestic banking sector via a reduction in the volume of low-quality assets. For example, the removal from the balance sheet of any non-performing exposures vis-à-vis the corporate sector (through disposal of claims or debt cancellation) would diminish this sector's NPL ratio from 23.4 percent (the August 2013 reading) to 7.5 percent. This would result from the contraction in the large volume of non-performing loans generated by borrowers with a low likelihood of servicing their debt (loans overdue for more than 365 days amounted to lei 19.7 billion, making up 74 percent of total NPLs, as of August 2013).

Thirdly, banks' liquidity position has remained adequate, with sufficient buffers to weather any adverse developments such as a reduction in funding by parent banks or potential shocks related to the early withdrawal of corporate and household deposits. The NBR ensured the adequate management of liquidity across the banking sector, inter alia by supplementing the regulatory framework and providing liquidity via weekly repos. In addition, during 2013 H1, credit institutions' recourse to central bank reserves supplied via repos declined systematically, given the progressive rise in the volume of structural liquidity in the banking system. These developments helped abate the volatility of interbank money market rates and enhance the transmission of monetary policy signals, resulting in the gradual and sustainable narrowing of the spread between lei- and euro-denominated interest rates.

Parent banks' exposure to their subsidiaries in Romania has so far diminished in an orderly manner, although at a faster pace since end-2012, with subsidiaries offsetting the 26.2 percent reduction seen December 2011 through August 2013 (from EUR 20.3 billion to EUR 15 billion) by raising deposits on the domestic market. Deleveraging effects to date have been largely corrective: banks' reliance on

external financing has gradually declined, the relatively high degree of household indebtedness has inched down, while the business sectors with the potential to sustainably alter Romania's economic growth pattern have generally received additional funding compared to the other sectors. Assuming the deleveraging process that the major banking groups embarked upon continued to gain pace, entailing liquidity shocks across the domestic banking sector over a short time horizon, the latter would be resilient to these unfavourable developments, certain vulnerabilities notwithstanding. According to the results of the macroprudential liquidity stress-testing exercise, challenges relate to fund conversion from lei into euro, certain asset sales and the impact on real sector funding.

The recent events in Cyprus have not exerted a noticeable impact on the domestic financial sector, since the crisis had effects only on banks with Cypriot capital (whose share in total assets of the Romanian banking sector was 1.4 percent in August 2013), with household and corporate deposits witnessing normal fluctuations. Domestic banks owned by financial institutions from euro area countries perceived by international markets as bearing the brunt of the sovereign debt crisis and of its negative feedback loops with investor concerns regarding the quality of banks' balance sheets (the GCIIPS countries – Greece, Cyprus, Italy, Ireland, Portugal and Spain) report overall solvency ratios above the system-wide average, while the provisioning coverage ratio of non-performing loans and the asset quality are close to the system's average. Moreover, the share of short-term external loans in total external loans of banks in this category was significantly below the system-wide average in August 2013. The specific challenges faced by parent banks in their home countries call for attention in assessing risks. The National Bank of Romania further closely monitors local and international developments and acts towards the adequate management of liquidity in the domestic banking sector. Maintaining comfortable liquidity, provisioning and solvency levels is an important prerequisite for the Romanian banking sector to adequately weather any adverse developments, including those triggered abroad.

Aside from the orderly progress in deleveraging, two other preconditions for the sustainable resumption of lending to companies and households are the maintenance of the latest trends in terms of more balanced developments in new loans by currency and the consolidation of sustainable structural changes in banks' business model as regards lending to non-financial corporations. Keener demand for loans in domestic currency and the new steps taken by the NBR starting 2011, prompted both by the currency risk likely to impact unhedged borrowers' capacity to service loans and by the need to comply with the relevant ESRB recommendations, have contributed to more balanced dynamics of the flow of new business since the release of the previous Report. For instance, the share of new EUR-denominated loans to households shrank considerably in the case of consumer loans (from 35.7 percent in 2011 to 10.3 percent December 2011 through August 2013) and to a lesser extent when looking at housing loans (from 97.8 percent in 2011 to 86.4 percent during December 2011 – August 2013). The non-performing loan ratio for foreign currency loans stood at 11.1 percent in June 2013 (versus 8.9 percent for lei-denominated credit), up 2.5 percentage points from December 2011. The volume of non-performing corporate loans in foreign currency soared 73.7 percent December 2011 through August 2013, while that of non-performing loans in lei expanded by 53 percent during the same period. After reaching 4.3 percentage points at end-2011, the gap between NPL ratios in domestic and foreign currencies was bridged in August 2013, when they came in at 23.4 percent and 23.5 percent respectively. The implementation of the "First Home" programme solely for lending in domestic currency starting August 2013 and the lower interest rates on lei-denominated credit, also in response to the central bank's decisions to cut the monetary policy rate by a cumulated 100 basis points July through September 2013, are expected to help alleviate

the currency mismatch in the case of housing loans as well. The same trend is also anticipated for corporate lending, since the steps taken by the NBR at end-2012 for better management of credit risk generated by unhedged borrowers are seen leading to more balanced developments in new business by currency.

Corporate funding witnessed favourable structural developments December 2011 through June 2013, the most noteworthy being: (i) lending to firms producing high value added goods (medium high-tech and high-tech) went up 4.3 percent, whereas the volume of loans granted to companies producing lower value added goods (low-tech and medium low-tech) contracted 1 percent; (ii) companies in the tradable sectors reported a 0.6 percent rise in financing, while the non-tradable sectors posted a decline of 1.1 percent, and (iii) looking at the business profile, agriculture reported a 20.9 percent increase in funding, followed by trade and manufacturing with an advance of 3.3 percent and 0.6 percent respectively. Furthermore, SMEs received additional financing from domestic and foreign creditors (up 0.9 percent), with loans extended by domestic banks posting the fastest dynamics (2.5 percent). Conversely, lending to knowledge-intensive services companies dropped 6.2 percent, while the volume of funds channelled to less knowledge-intensive services companies stood 0.2 percent lower (nominal values adjusted for the exchange rate effect).

Financial intermediation, assessed in terms of the financial system's assets as a share in GDP, slightly decreased in 2012, given the slower economic growth rate in Romania and the ongoing tensions on global financial markets. The dominant position of the banking sector weakened at end-2012 and in 2013 H1. The direct contagion risk within the Romanian financial system remains subdued for the banking sector, whereas the other financial institutions may be vulnerable to the concentration of exposures to domestic credit institutions or of funds raised from the latter.

Domestic and external developments had a strong bearing on the non-bank components of the financial system. In particular, the insurance sector witnessed a consolidation during 2012, when the share of gross premiums written in GDP saw its previous years' decline come to a halt. The non-life insurance market recorded positive real dynamics for the first time in the past four years, with a constant share of gross claims paid in total gross premiums written. The profitability of insurance companies remained in negative territory in 2012 as well, despite a slight improvement versus the year-earlier reading.

The private pension system is not exposed to significant risks in terms of financial stability, given the still low level of overall assets held by private pension funds vis-à-vis the rest of the financial system and judging by the investment portfolios, which point to a low risk profile. The performance of pension funds improved in 2012 on account of favourable domestic developments, while the share of foreign exposures in total financial assets continued to narrow.

Non-bank financial institutions (NBFIs) saw their business shrink slightly January 2012 through June 2013. The non-performing loan ratio of NBFIs is further high, yet the provisions set up to cover expected losses help mitigate these entities' credit risk. NBFIs profitability returned into positive territory at end-2012, thanks to streamlining operating costs and cutting net expenses with provisions amid the improved domestic macroeconomic context.

Financial market volatility decreased in the early months of 2013. The decline in investors' risk aversion sent short-term interbank money market rates lower and caused the yields on the government securities market to fall. However, the market saw sharper fluctuations in the period May-June 2013, amid heightened uncertainty over the timing of the start and scale of the tapering of the US Federal Reserve's financial asset purchase programme. CDS prices for Romania's sovereign risk were closely linked to investors' trends across the region as a whole. In 2013, the CDS quotes hovered around 200 basis points, compared with an average of approximately 346 basis points in 2012. In June 2013, global financial market strains also temporarily affected the CDS prices, but the volatility peak remained below the previous years' levels thanks to the improvement in economic fundamentals, which fostered a reduction in the volatility of exposure to Romania compared to other countries and a relative balancing of short-term capital movements.

Lending and risk profile of the financial system were under the mixed impact of the domestic and global macroeconomic environment. The balance of risks stemming from domestic macroeconomic developments improved as against that presented in the previous Report: economic growth stayed in positive territory at 0.7 percent in 2012, even though it was further below potential and lower than the 2011 GDP growth of 2.2 percent, under the impact of supply-side shocks, fiscal consolidation carried on, while external accounts witnessed a considerable improvement in 2013 H1. The projections for the years ahead point to moderate, but above EU average, GDP dynamics, thereby underpinning the progress of real convergence, despite the negative output gap narrowing only gradually. The GDP dynamics sustainability is also reflected by the key macroeconomic indicators remaining below the alert threshold in the European Commission's Scoreboard for the surveillance of macroeconomic imbalances.

An essential prerequisite in the coming years is to preserve domestic macroeconomic stability amid the consolidation of financial stability with a view to strengthening the confidence of the main stakeholders (resident and non-resident investors, consumers, the financial system, etc.) in the Romanian economy. In order to maintain and enhance macrostability and financial stability, structural reforms in the economy should continue, labour market conditions should improve, the absorption rate for EU funds should increase, innovation should play a more prominent role in economic development, fiscal consolidation should carry on, and payment discipline should tighten for all system participants. The general government deficit narrowed to 2.9 percent of GDP (according to ESA95 methodology) in 2012 versus 5.6 percent of GDP a year earlier, so that the EU Council approved the abrogation of the excessive deficit procedure for Romania in June 2013. For 2013, the government envisages to bring the deficit down to 2.4 percent of GDP (according to ESA95 methodology), or 2.3 percent of GDP (according to national methodology), and to cut the structural deficit to 1.7 percent of GDP from 2.7 percent of GDP in 2012.

Public finance sustainability is reflected by the developments in and composition of public debt, which accounted for 37 percent of GDP in May 2013 (according to ESA95 methodology), well below the 60 percent reference value in the Treaty on European Union and one of the lowest readings across the EU. In 2012, the Romanian government started to issue USD-denominated bonds, thus diversifying its investor base. The maturity breakdown remains comfortable (the share of medium- and long-term debt widened to 84 percent of total debt in 2012 and 92 percent in May 2013, from 77 percent in 2011), the share of lei-denominated public debt remains elevated at 41 percent in May 2013, down slightly against 2011, and the bulk of sovereign debt is held by residents. Non-resident investors' participation in the domestic market for debt securities (in lei and euro)

issued by the Romanian government went up sharply in 2012 and the first seven months of 2013 (these investors accounted for 24.5 percent of the securities outstanding at end-July 2013, compared with 14 percent at end-2012 and 11.7 percent at end-2011), but remained well below the levels seen in other countries in the region (53 percent in Hungary, 36 percent in Poland). With a view to dealing with any unfavourable developments in the access to funding, the Romanian government moved to establish a foreign currency buffer as early as 2010, so that budget financing requirements are met for a period of at least four months, and intends to preserve it in the years ahead as well.

Companies' financial position improved slightly in 2012, against the background of the modest 0.7 percent increase in real GDP and a still tension-ridden global environment, pointing to the frailty of this improvement. Corporate performance was mixed, but the sustainable change in the economic growth pattern carried on gradually. Payment discipline however remained loose for a significant number of companies and insolvency became increasingly pronounced starting 2012. The measures taken by the authorities to address this situation were aimed at tightening the discipline in filing for insolvency as well as the payment discipline for all participants in the system, but there is still a need for hard budget constraints, also on private companies. In this vein, the legislative framework governing commercial, fiscal and accounting matters should be further improved in order to enhance commercial and financial discipline across the real sector, which is expected to support banking system soundness and stability as well as the public finance and the financial sector as a whole. The relatively high heterogeneity of the corporate sector has led to the fact that, although microeconomic fundamentals improved on an aggregate basis, the companies that grappled with difficulties in the past have generally failed to surmount them; as a result, companies' capacity to service their bank debts was further constrained (the non-performing loan ratio rose to 23.4 percent in August 2013 from 14.4 percent at end-2011). The outlook for the non-performing loan ratio reveals that, in the absence of more comprehensive measures taken by banks to clean up their balance sheets, its worsening will most likely continue in the period ahead, albeit at a slower pace. Credit institutions report adequate capital and provision levels to cover the risks related to corporate financing and have available risk management techniques, which are yet to be used to the fullest. Furthermore, the National Bank of Romania took additional prudential steps to preserve solvency and provision buffers, addressing unhedged borrowers in particular, in line with EU-wide recommendations in the field. Moreover, the new 24-month economic programme concluded with the European Union and the International Monetary Fund provides for further implementation of structural reforms in the economy, which is expected to alleviate the vulnerabilities of non-financial corporations.

The risks arising from households' balance sheets posted a balanced evolution, while the strongest vulnerability of this sector, i.e. high indebtedness, especially in foreign currency, followed a slightly downward path, in line with deleveraging moving gradually ahead for this category of debtors. The positive developments were uneven across households' income classes, as low-income and very-low-income groups broadly reported a deterioration of their financial standing. The ability of this sector as a whole to service its bank debt kept diminishing, albeit at a slower pace than in the previous period, and prospects are mixed. The non-performing loan ratio went up by 2.2 percentage points in December 2011-June 2013 to 10.4 percent from 8.2 percent, while the volume of non-performing loans increased by 28 percent over the same period. The Romanian banking sector is adequately covered against risks stemming from household lending: (i) capital adequacy ratio remains significantly above the minimum required level; (ii) expected risks from household lending are almost entirely covered by IFRS provisions, including prudential filters (96.3 percent in August 2013), and

(iii) the value of collateral in banks' portfolio remains high enough to cover the risks stemming from renewed unfavourable developments (the loan-to-value – LTV – ratio for housing loans reached roughly 85 percent in June 2013, with this increase being also driven by collateral revaluation).

The prospects for the developments in households' repayment capacity are mixed, but indicate a future slowdown in the growth of the non-performing loan ratio (or even a lower ratio provided that banks will take stronger balance sheet clean-up measures). The non-performing loan portfolio breakdown reveals three vulnerabilities, also identified in the previous Report, which are closely connected to the challenges to household indebtedness structure. First, credit risk associated with foreign currency-denominated loans continued to increase, at a faster pace than that of the risk posed by lei-denominated loans. Second, borrowers with a net income lower than the whole-economy average are still the most vulnerable category across the banking sector, accounting for about 70 percent of total non-performing loans. Third, the loans granted under looser terms and conditions during the pre-crisis years put further pressure on bank asset quality. The riskiest loan portfolios are those extended in the period 2007-2008, with the volume of non-performing loans making up roughly 70 percent of total non-performing loans in June 2013. The non-performing loan ratio for these exposures is considerably above the average (15.4 percent and 18.4 percent for the loans extended in 2007 and 2008 respectively, compared with 10.4 percent on average in June 2013) and is still rising quicker than the average. These figures are further evidence that lending should resume on a sustainable basis, as the credit institutions' loosening of lending standards in the period preceding the financial crisis led to a build-up of vulnerabilities.

Most of the loans granted to companies and households are mortgage-backed (67 percent, or lei 147.4 billion, in June 2013), whereas real-estate market weakness over the past few years has posed three challenges to the bank loan portfolio, as follows: (i) to preserve mortgage collateral at an appropriate value; (ii) to adequately manage the growing risk relative to mortgage-backed lending, also by ensuring a functional balance between costs and benefits of various solutions to manage non-performing loans, and (iii) to review bank policy effectiveness in terms of the type of collateralisation given the pro-cyclical tightening of lending standards.

The recent housing price downward correction has led to a decline in the collateral coverage of housing loans to households, as reflected by developments in the LTV ratio, which climbed from almost 78 percent in December 2011 to 85 percent in June 2013. As for corporate loans, the LTV ratio also worsened, nearing 90 percent as against 79 percent (June 2013 versus end-2011). Empirical evidence shows that the LTV ratio is an important element of debt servicing, which calls for credit institutions to maintain it at prudent levels. The National Bank of Romania took steps so that the LTV ratio for new business should be adequate and the LTV ratio for the outstanding loans should capture the decline in the prices of real-estate assets held by banks as collateral.

Domestic macrostability strengthened amid a still intricate global environment characterised by: (i) weaker-than-expected growth both of the world economy and the EU's advanced economies; (ii) the ongoing balance sheet adjustment by the major European banking groups, including from a cross-border perspective, along with the efforts made towards early fulfilment of the new capital requirements, liquidity requirements and for identifying sources to cover bail-in-able capital tranches, as well as by (iii) the uncertainty surrounding the potential capital movements if the major central banks around the world were to decide to gradually taper their far-reaching non-standard monetary policy measures implemented thus far. The key consequences of the tension-ridden global environment

on Romania have materialised in challenges to preserving an orderly deleveraging process across the local banking sector, strengthening resilience to foreign capital flow volatility and containing the adverse effects of modest economic growth in Romania's main trading partners.

The delay in resuming growth in major EU economies, Romania's main trading partners, has a detrimental impact on domestic economic growth and may affect foreign trade companies' ability to withstand various unfavourable developments. So far, such risks have been contained particularly by: (i) exporters' capacity to diversify their markets, reducing their exposure to euro area countries in relative terms (down 1.5 percentage points in 2012) by switching to new foreign markets; (ii) preserving foreign trade companies' access to funding (e.g., non-resident parent undertakings raised the loan volume to local net exporting companies by 10.6 percent in the period December 2011 – June 2013), and (iii) maintaining the economic and financial standing of foreign trade companies at a satisfactory level, above the economy-wide average. Romania's exports with high value added and innovative technology have remained on an upward path. Thus, medium-high technology products, making up the bulk of domestic companies' exports, have advanced markedly of late. As a matter of fact, providing incentives to innovative industries is a key goal, as mentioned in the Europe 2020 Strategy currently under implementation. Its achievement should be regarded as a priority and it would represent a potential advantage, as these industries proved their capacity to weather the crisis better than other sectors, with their share of value added increasing economy-wide, amid reasonable profit margins and considerable investment efforts.

In turn, enhanced resilience to the possible heightening of capital flow volatility calls for strengthening external debt service sustainability so as, together with maintaining domestic macrostability, to preserve the access to external funding under adequate conditions and improve the structure of external financing flows, thereby contributing to the sustainable change in the growth pattern for the Romanian economy.

Potential risks to financial stability associated with the dynamics or structure of external capital flows have further been manageable and are expected to remain so. Following some capital outflows in the period May-June 2013, occurring simultaneously with similar events on other emerging markets, portfolio investments in Romania bounced back to levels close to those seen prior to the reduction in exposure to emerging economies in terms of asset class. This evolution validates the fact that capital flows are further directed particularly towards the economies where the major macroeconomic equilibria have already been adjusted or their adjustment is underway, as well as towards the countries implementing structural reform programmes.

First, Romania's short-term external debt followed a downward path, contracting by more than 12 percent in the period December 2011 – June 2013 (from EUR 22.8 billion to EUR 19.9 billion). Furthermore, the official foreign currency reserve provides an adequate coverage for the short-term external debt, the best across the region. Second, the companies generating the country's private external debt enjoy a satisfactory economic and financial standing, which enables them to withstand moderately unfavourable developments.

Third, the short-term external debt of non-financial corporations is accounted for nearly 60 percent by parent undertakings, with evidence showing that such debt proved among the most stable.

Fourth, medium- and long-term external financing of non-financial corporations provided by creditors in countries perceived on international markets as being more severely hit by the sovereign debt crisis (the GCIIPS, namely Greece, Cyprus, Italy, Ireland, Portugal, and Spain) holds a moderate share in total medium- and long-term external debt (15 percent in June 2013). Assuming adverse developments in financing extended by creditors from those countries, their direct impact on the Romanian economy or the Romanian banking sector via the corporate debtor channel is most likely low, also due to the maturity of the loans.

Fifth, the Romanian banking sector is able to withstand a moderate shock of a failure to roll over foreign borrowings, due to banks' higher stock of liquid assets, their gradual reduction in reliance on external financing (the share of external funding in total bank liabilities net of capital shrank 5 percentage points, while the loan-to-deposit ratio fell from 119.1 percent at end-2011 to 109 percent in August 2013) and to the enforcement of NBR measures aimed at strengthening credit institutions' capacity to cope with adverse developments in foreign capital flows. Among these measures, the following deserve mention: (i) broadening the range of eligible collateral by including foreign currency-denominated securities launched by the Romanian government and lei-denominated bonds issued by financial institutions; (ii) preserving the banking sector's prudential indicators on solvency and the degree of provisioning for non-performing loans at adequate levels, and (iii) ensuring an appropriate amount of eligible collateral by banks for their monetary policy operations in order to make available the necessary liquidity for the banking sector, if required. Last but not least, Romania has signed a new precautionary arrangement with the international financial institutions (the European Union and the International Monetary Fund) tantamount to approximately EUR 4 billion; the Romanian authorities may draw on the programme only in the case of a serious and unexpected worsening of the economic and/or financial situation triggered by factors outside the scope of domestic decision-makers, should the already in place buffers set up by the authorities prove insufficient.

ReGIS payment system ran smoothly from January 2012 to June 2013, but the value of transactions started to decline at mid-2012. Although the aggregate liquidity available to the participants in the system was higher than the demand for resources, there were slight tensions affecting some participants' liquidity in the course of 2012, which however alleviated in 2013 H1. The value of transactions in ReGIS increased during the first part of 2012, as the central bank expanded its repo operations on the money market and the credit institutions resorted to significant intra-day credit operations; however, the amounts settled via this payment system fell subsequently to 2011 levels. Even though the SENT system experienced some operational incidents, they did not affect its stable and predictable functioning. The incidents had a marginal and isolated impact on the participants in the system. DSClear, RoClear and SaFIR clearing systems also operated smoothly throughout 2012 and in 2013 H1, with the major indicators on system performance remaining at high levels, thereby confirming their robustness.

The step-up in the volume of transactions on the secondary market for government securities, the larger amount of issues launched by the Ministry of Public Finance on the local market as well as the rise in National Bank of Romania's operations translated into an upturn in the number and especially in the value of instructions settled via SaFIR system in the course of 2012. The first half of 2013 witnessed negative growth of the total value of instructions processed as against a year earlier, the further upward trend in the number of settlement instructions notwithstanding.



After having assessed the DSClear and RoClear systems in view of the applicable European standards, the National Bank of Romania made several recommendations and the system administrators took tangible steps to correct the identified deficiencies, while relatively minor inadequacies are still to be remedied in the upcoming period.

The micro- and macroprudential regulatory framework is currently in a process of thorough revision both at EU and national level. The outcome of assessments regarding the impact of the CRD IV/CRR package shows that the credit institutions operating in Romania generally meet the requirements of European regulations. As the key elements of the banking union, namely the single supervisory mechanism, the single resolution mechanism and the national deposit guarantee schemes, are put in place, the segregation of duties between European and national authorities, as well as the sharing of financial obligations among the participating Member States will weigh on the effectiveness of the implemented mechanisms and non-euro area countries' interest in joining them.

## 2 INTERNATIONAL ECONOMIC AND FINANCIAL ENVIRONMENT

---

*The major external developments with an unfavourable impact on financial stability in Romania have remained those identified in the previous report: (A) the persistently fragile international economic environment, especially at European level, amid (B) the ongoing balance sheet adjustment by large European banking groups, entailing the reduction of exposures, including those to the domestic banking sector.*

(A) The tensions in global financial markets have alleviated somewhat since the release of the previous report, apart from brief episodes of renewed risk aversion. The outlook remains surrounded by uncertainty, against the background of weaker-than-expected global economic growth<sup>1</sup> and possible unpredictable developments in capital flows once the major central banks start to gradually unwind the extensive unconventional monetary policy measures implemented so far. The abovementioned outlook poses two major challenges for Romania, namely: (A1) the prudential and structural measures' appropriate response, in terms of macroeconomic policies, to the potentially high volatility of foreign capital flows, and (A2) the containment of the adverse impact exerted by the mild economic growth seen in Romania's main trading partners.

(A1) EU authorities furthered their efforts to maintain financial stability and resume sustainable lending to the real sector. Firstly, a new architecture of banking supervision and regulation was defined with the creation of the European Banking Union (European Council, 28/29 June 2012), a project that includes the following components: (i) the harmonisation of the banking regulatory and supervisory framework, the first step implying the adoption of a new prudential framework<sup>2</sup> and the creation of the Single Supervisory Mechanism aiming, among others, to avoid the fragmentation of the EU financial market; (ii) the establishment of the common bank resolution framework at European level, through the creation of the Single Resolution Mechanism (necessary for integrating bank resolution decision-making bodies and bringing them in line with the European supervisory measures) and the completion of the European draft directive setting up a framework for redressing and solving crisis situations facing credit institutions and investment companies; (iii) the harmonisation of the operating framework of deposit guarantee schemes.

Secondly, financial assistance programmes targeted at countries facing severe financial problems<sup>3</sup> improved. In particular, the European Stability Mechanism was tested during the Cyprus crisis, when the Cypriot government received a EUR 10 billion bailout (of which EUR 9 billion through the ESM) so as to cover the financing needs of the country's economy, i.e. for budget deficit financing, repayment of medium- and long-term debts and recapitalisation of financial institutions (except for

<sup>1</sup> In July 2013, the IMF further revised downward its global growth forecast for 2013 to 3.1 percent, 0.2 percentage points lower than in its April 2013 forecast.

<sup>2</sup> Directive 2013/36/EU on access to the activity of credit institutions and the prudential supervision of credit institutions and investment firms, amending Directive 2002/87/EC and repealing Directives 2006/48/EC and 2006/49/EC, and Regulation (EU) No. 575/2013 on prudential requirements for credit institutions and investment firms and amending Regulation (EU) No. 648/2012.

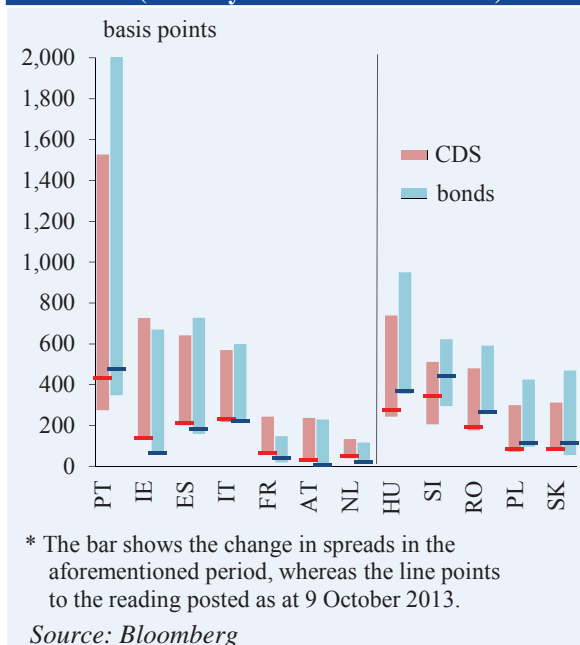
<sup>3</sup> The European Stability Mechanism (ESM) took over the prerogatives of the European Financial Stability Facility on 1 July 2013 and provides for tools such as granting funding to countries in view of recapitalising credit institutions, intervening on the primary and secondary markets of government securities and precautionary financing agreements. The ESM has currently signed two agreements with Spain and Cyprus for supporting financial systems, amounting to EUR 100 billion and EUR 9 billion respectively.

the first two largest banks, namely the Bank of Cyprus and Cyprus Popular Bank, in whose cases the Cypriot government implemented measures for bank restructuring and resolution, including the participation of creditors and large depositors).

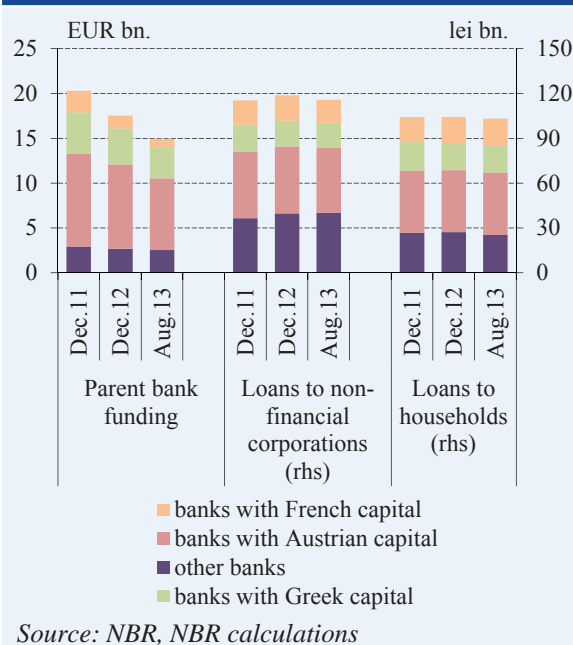
The events in Cyprus have not exerted a significant impact on domestic financial markets. As regards the Romanian banking sector, the crisis had repercussions only on banks with Cypriot capital (whose share in total assets of the domestic banking sector was 1.4 percent in August 2013), with household and corporate deposits witnessing normal fluctuations.

Thirdly, the efforts to develop, at European level, instruments for monitoring financial sector risks continued. The vulnerabilities identified in 2013, according to these analyses, are as follows: (i) worsening profitability of credit institutions given a weak economic environment; (ii) persistence of tensions generated by the sovereign debt crisis; however, these have alleviated since the release of the previous report; (iii) reassessment of risk premiums on global financial markets, and (iv) increased risk of financing credit institutions in countries facing financial difficulties in the public sector. Likewise, a set of measures aimed at boosting confidence in the banking sector by recapitalising financial institutions based on results of stress-testing analyses were implemented at European level. A first step, completed in June 2012, intended to reduce risks regarding banks' exposures to the government sector, as well as to maintain capital at an appropriate level (the minimum recommended level of Tier 1 capital ratio being 9 percent)<sup>4</sup>. At present, the European Banking Authority intends to conduct a new stress-testing exercise, and the European Central Bank will carry out a banks' balance sheet and asset quality review, in the context of the Single Supervisory Mechanism.

**Chart 2.1. Developments in the spreads<sup>5</sup> of credit default swaps (CDS) and sovereign bonds for EU Member States (January 2012 – October 2013\*)**



**Chart 2.2. Developments in external exposures and impact on corporate and household lending**



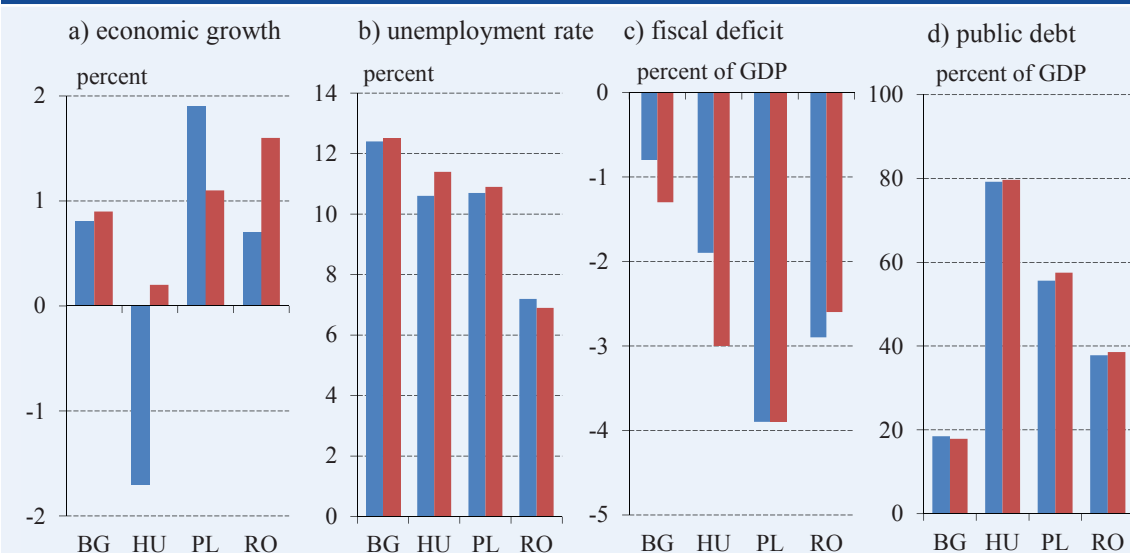
<sup>4</sup> In December 2011 – June 2012, as part of the recapitalisation exercise of credit institutions, 37 banks carried out capital increases of EUR 115.7 billion or EUR 200 billion, should governments' recapitalisation programmes and programmes conducted through the European Financial Stability Facility also be taken into consideration. The largest part of the capital came from new equity contributions and only to a small extent from reductions in risk-weighted assets (European Banking Authority, October 2012).

<sup>5</sup> Spreads on sovereign bonds are determined relative to German government bond yields, for 5-year euro-denominated bonds issued on the external markets. The chart presents spreads and CDS readings for 5-year government bonds.

The aforementioned measures also contributed to boosting investors' confidence in EU economies (Chart 2.1.). In the case of Romania, however, idiosyncratic factors were dominant. First, the strengthening of domestic macrostability (for further details see Chapter 4. "Risks related to domestic economic and financial developments") and Romania's exiting the excessive deficit procedure had a major contribution to restoring foreign investor confidence.

Second, Romania saw a significant improvement in its macroeconomic framework as compared to other European countries in the region (Chart 2.3.). Economic growth in this region stayed mostly in negative territory in 2012, except for Poland (1.9 percent), Bulgaria (0.8 percent) and Romania (0.7 percent). The European Commission forecasts for 2013 point to Romania as having the fastest-growing economy in the region, given the ongoing fiscal consolidation and the further relatively low public debt.

**Chart 2.3. Macroeconomic indicators for Romania and other countries in the region**



Note: The red bars display the projected values for 2013; the blue bars show the values for 2012, except for the unemployment rates, which are as at March 2013.

Source: Eurostat, European Commission Economic Forecast, Spring 2013

Third, additional factors contributing to strengthening foreign investor confidence in Romania included the successful completion of the precautionary financing arrangement with the EU, the IMF and the World Bank, as well as the signing of a similar agreement conducive to the furthering of reforms meant to consolidate the domestic macroeconomic and financial framework. Fourth, the increased interest in the local market was also due to including, as of March 2013, securities issued by the Romanian government in the composition of major indices of emerging market government bonds (Barclays Capital and JP Morgan).

The favourable financial market sentiment towards Romania reflected also in the developments of spreads as of mid-2012, which, in some cases, reverted to levels close to those recorded prior to the onset of the crisis (CDS spreads dropped to half, from over 450 basis points in June 2012 to around 190 basis points in October 2013; government bond spreads witnessed similar developments, decreasing from over 500 basis points, as recorded in June 2012, to below 270 basis points in October 2013).

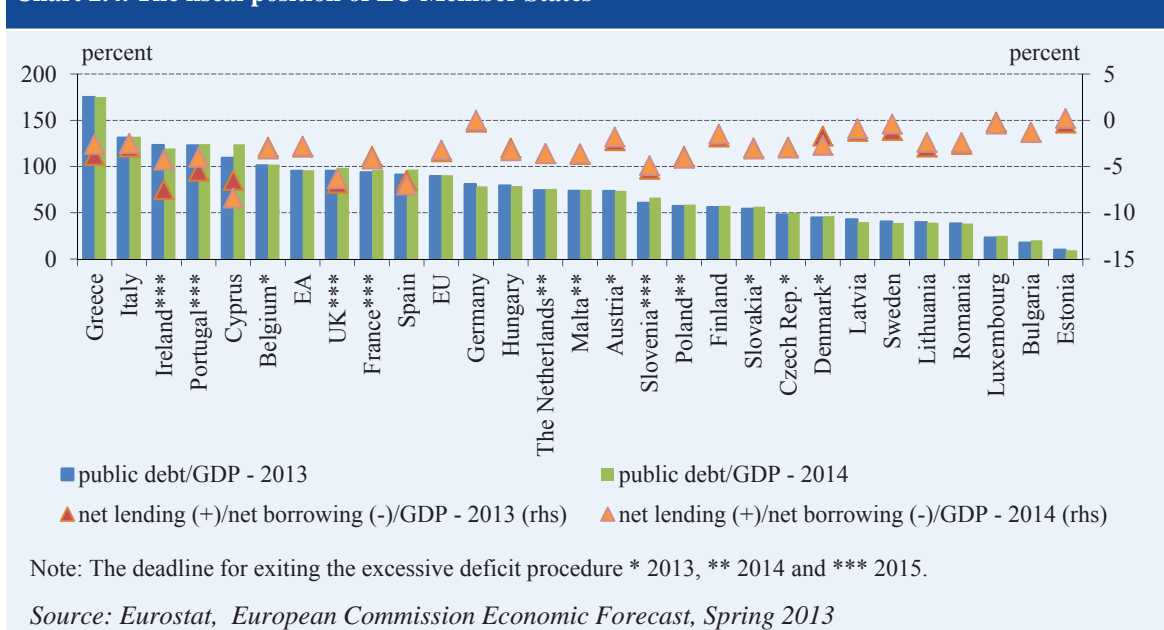
In order to manage high capital flow volatility (that impacts significantly on small open economies, such as Romania), the National Bank of Romania used a combination of three factors in implementing monetary policy, namely: (i) consenting to a certain flexibility in exchange rate developments; (ii) using the foreign currency reserve to abate exchange rate volatility, and (iii) allowing a certain interest rate fluctuation on the money market. Moreover, so as to offset volatility effects on the economy, the National Bank of Romania implemented additional macroprudential measures concerning new foreign currency loans for unhedged debtors (for further details see Chapter 4.2. “Corporate and household lending”), as well as new microprudential measures aimed at enhancing the resilience of credit institutions (such as introducing prudential filters, maintaining the solvency and provisioning coverage ratios at adequate levels). Developments in capital flows occurred against the background of strengthened sustainability of short- as well as medium- and long-term external debt service and improved structure of external financing flows to the real economy (for further details see Section 4.3.2. “Capital flows”).

(A2) The delay in resuming growth in major EU economies, Romania’s main trading partners, has a detrimental impact on domestic economic growth and may affect foreign trade companies’ resilience. So far, these risks were contained particularly by: (i) exports converging towards countries with a faster economic rebound (Germany being Romania’s main export partner) and exporters’ ability to diversify their external markets so as to reduce their exposure to euro area countries (down 1.5 percentage points in 2012 as compared to the previous year); (ii) foreign trade companies preserving their access to funding (e.g., non-resident parent companies increased the loan volume to local net exporting companies by 10.6 percent between December 2011 and June 2013), and (iii) foreign trade companies maintaining their economic and financial standing at a satisfactory level, above the economy average (for further details see Section 4.3.1. “Current account deficit”).

The fiscal consolidation programmes initiated by several euro area countries are in line with the commitment to reduce fiscal deficit according to the provisions of the Stability and Growth Pact and to the excessive deficit procedure (Chart 2.4.), as well as with the structural programmes linked to financial assistance plans offered by international financial institutions (in the case of Spain, Portugal, Ireland, Cyprus and Greece), and will contribute over the medium term to the sustainable resumption of economic growth in these countries. The measures adopted at EU level with a view to counteract the potential short-term adverse impact of fiscal adjustment programmes on economic growth included: (i) strengthening the new economic governance framework by adopting two new regulations that set out to simplify the fiscal surveillance procedure for countries in financial distress and restrict cross-border contagion effects of fiscal consolidation measures, and (ii) adopting a pact for encouraging economic growth, competitiveness and employment (Growth and Jobs Pact, June 2012). In order to spur economic growth resumption, the pact provides, among other things, for EUR 120 billion in investments (a EUR 60 billion increase in the European Investment Bank’s funds, with EUR 55 billion from European Structural Funds and EUR 5 billion from project funding instruments), as well as for adopting a job creation plan.

(B) The second major external challenge to financial stability in Romania consists in preserving the orderly nature of deleveraging following the balance sheet adjustment by main European banking groups. Given that these groups hold over 80 percent of the domestic banking sector assets, the manner of implementing strategies for reducing their indebtedness at group level may have a significant impact on the activity of local subsidiaries.

Chart 2.4. The fiscal position of EU Member States



The adjustment in European banks' exposures reflected on all countries in the region, despite the prevailing favourable risk sentiment towards emerging economies in terms of asset class. The latest monitoring report on deleveraging, drawn up by the Vienna Initiative, notes an ongoing decline in external funding from Western banks towards Central, Eastern and South-Eastern European countries. The period July 2011 – March 2013 witnessed the largest contractions that amounted to 23 percent of GDP in Hungary and 17 percent of GDP in Slovenia, Romania being included in the group of countries with average adjustments.

The deleveraging process unfolded at a faster pace during the reference period, yet in an orderly manner so far. Parent banks' exposures to their subsidiaries in Romania declined by 26.2 percent December 2011 through August 2013, to reach EUR 15 billion (Chart 2.2.), a trend offset by deposit-taking operations on the local market by subsidiaries (for further details see Chapter 4.2. "Corporate and household lending"). Furthermore, reduced exposures do not appear to have posed the main constraint to lending, given that the slightly lower levels of corporate and household funding (a 2 percent decrease, value adjusted for the exchange rate effect, from December 2011 to August 2013) were also the result of weaker demand.

The conclusion holds true both at system level and by categories of domestic credit institutions, according to the nationality of the banking groups they belong to. Therefore, the corrections occurring in banks pertaining to Austrian and French banking groups focused on strengthening internal resources and, at the same time, maintaining their market share, whereas in the case of banks with Greek and Cypriot capital, balance sheet adjustments, albeit progressing orderly, exerted a moderate impact on the volume of loans to the real sector. From December 2011 to August 2013, financing granted to households and non-financial corporations fell by 7.4 percent in the case of banks with Greek and Cypriot capital, while in the case of Austrian and French banks, it moved down by 2.9 percent and 1 percent respectively (values adjusted for the exchange rate effect).

In this context of deleveraging, the volume of net loan sales does not pose concerns as regards financial stability, given the lack of signals pointing to domestic banks selling a significant share of their assets for restructuring their balance sheets and preserving an adequate solvency ratio. Net asset sales ran at lei 3 billion in 2012 (approximately 1.3 percent of the non-government credit balance, in December 2012), from lei 2.5 billion in the previous year. During January-August 2013, net asset sales amounted to approximately lei 1.7 billion.

The Central European Bank further contributed significantly to mitigating the risk of a disorderly development in the lending conditions across the EU. The main measures that were implemented in this respect are the following: (i) announcing a sovereign bond-buying programme on the secondary market in September 2012 (Outright Monetary Transactions); (ii) continuing longer-term refinancing operations with full allotment (3-month repos); (iii) extending the list of assets eligible as collateral in Eurosystem credit operations, and (iv) cutting the policy rate to 0.5 percent (in May 2013).

Assuming that the deleveraging process started by large banking groups would speed up considerably, triggering liquidity shortages in the short run, the results of the macroprudential stress-testing exercise point to the domestic banking sector's resilience, but challenges persist, being mainly posed by fund conversion from lei into euro, certain asset sales and the impact on real sector funding. As the previous report also noted, domestic banks with Greek and Cypriot capital are relatively well prepared to withstand a potentially severe funding liquidity shock, as they display prudential indicators suited to the existing risks. Most Greek and Cypriot banks report solvency ratios above the system-wide average (in June 2013, Greek and Cypriot banks' solvency ratios stood at 16.4 percent and 15.7 percent respectively, versus 14.7 percent, the banking system average). Liquidity ratios are higher than required for both Greek and Cypriot banks (in August 2013, 1.38 for banks with Greek capital and 1.1 for banks with Cypriot capital versus 1.5 at aggregate level).

The share of short-term loans (i.e. with a maturity of up to one year) in overall external loans granted by Greek and Cypriot parent banks (7.4 percent) is below the system-wide average, standing at 18.9 percent in August 2013. The quality of loan portfolios of credit institutions with Greek and Cypriot capital is close to the average (in August 2013, the non-performing loan ratio was 21.1 percent and 24.6 percent respectively, versus 21 percent, the system-wide average). As a matter of fact, domestic banks majority-owned by financial institutions from countries perceived by international markets as bearing the brunt of the sovereign debt crisis (the GCIIPS, namely Greece, Cyprus, Italy, Ireland, Portugal, and Spain) report overall solvency ratios above the system-wide average (in June 2013) and levels close to the average of the NPL provisioning coverage ratio and of the asset quality, given that the share of short-term external loans in total external loans is significantly lower than the banking sector's average (in August 2013).

In the event of a potential external liquidity shock affecting a third country linked to the Romanian banking sector via the common lender channel<sup>6</sup>, analyses point to the contagion risk further posting similar levels to those in the previous report. Moreover, the risk of transferring a potential shock via the direct channel of euro area government security holdings is marginal, given the low volume of such instruments in the Romanian credit institutions' asset portfolios (0.2 percent of total bank assets in August 2013). Furthermore, euro area government securities are not eligible guarantees in the refinancing operations conducted by the National Bank of Romania.

<sup>6</sup> For calculating regional exposures we used the contagion indicator put forward by Fratzscher, M., *On Currency Crises and Contagion*, ECB Working Paper No. 139, April 2002. According to this analysis, the countries in the region likely to pose the strongest challenges on the Romanian banking sector via the common lender channel in the event of adverse developments are Poland and the Czech Republic.

The specific challenges faced by parent banks in their home countries call for attention in assessing risks. The National Bank of Romania further closely monitors domestic and international developments and acts towards the adequate management of liquidity in the domestic banking sector. For this purpose, the National Bank of Romania has extended the list of instruments used for ensuring adequate liquidity levels in the system (inter alia by employing exchange rate swaps to narrow the currency mismatch of the system's resources) and the list of eligible collateral in open market operations, as well as in refinancing and guaranteeing operations pertaining to the payment system and cut the monetary policy rate from 5.75 percent in December 2011 to 4.25 percent in October 2013. The Romanian banking sector reported an improved liquidity position in the period under review, revealed also by the larger liquid asset holdings that increased by 21 percent between December 2011 and September 2013, representing government securities eligible as collateral for refinancing operations conducted by the National Bank of Romania. Maintaining comfortable liquidity, provisioning and solvency levels is an important prerequisite for the domestic banking sector to be able to adequately withstand external liquidity shocks.

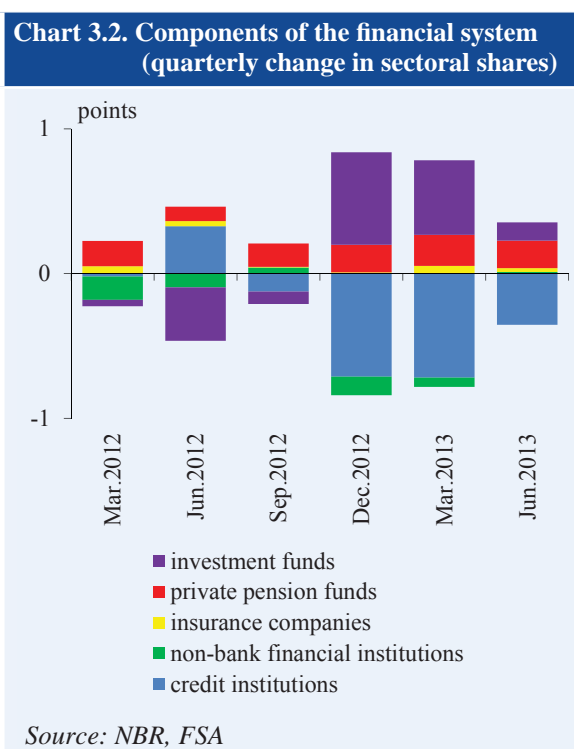
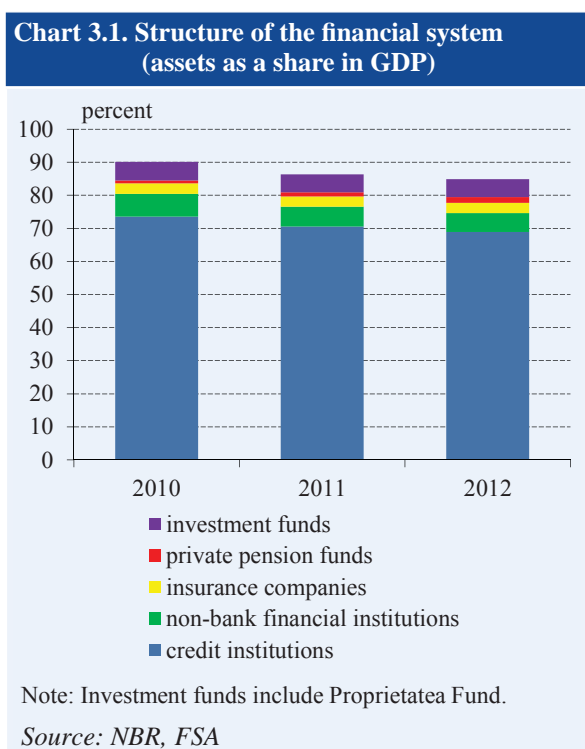


## 3 FINANCIAL SYSTEM AND ITS RELATED RISKS

### 3.1. Structure of the financial system

The financial intermediation ensured by the Romanian financial system declined slightly in 2012, against the background of the slowdown in economic growth and the persistent tensions on the international financial markets. Credit institutions further held the largest share in the financial system. The direct contagion risk of the banking sector stemming from the other financial system components has been low, without recording significant changes. On the other hand, the concentration of exposures to credit institutions and of the funds raised from them may represent vulnerabilities for the institutions operating in the other financial sectors.

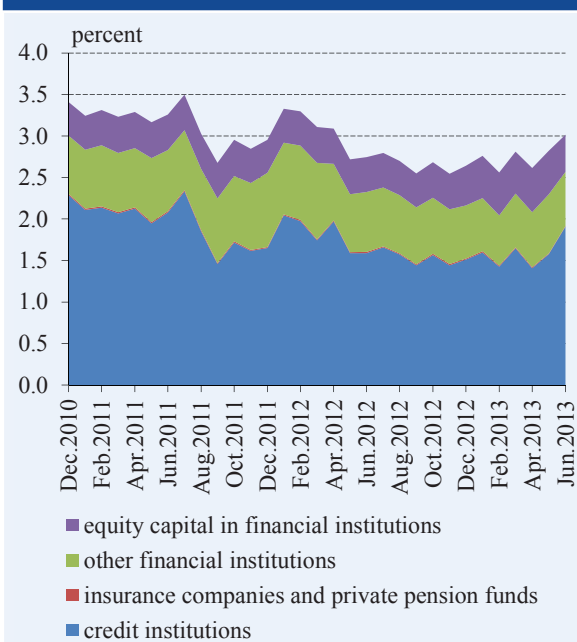
In the economic context influenced by the protracted tensions on the international financial markets and by the deceleration of real GDP dynamics domestically, the level of financial intermediation, assessed in terms of the financial system's assets as a share in GDP, continued to decrease in 2012 (Chart 3.1.), yet at a slower pace than in the previous year. Credit institutions held the largest share of the financial system's assets, followed by non-bank financial institutions (NBFIs) and investment funds. In 2012, banking sector assets recorded a modest increase, while the assets of NBFIs saw a contraction.



In the period under review, the developments in financial system components showed the continued uptrend in the share of private pension funds, along with the persistent downtrend in the share of NBFIs (Chart 3.2.). In 2012 Q4 and in 2013 H1, the main changes consisted in the slight decline in the share of credit institutions and the rise in that of investment funds.

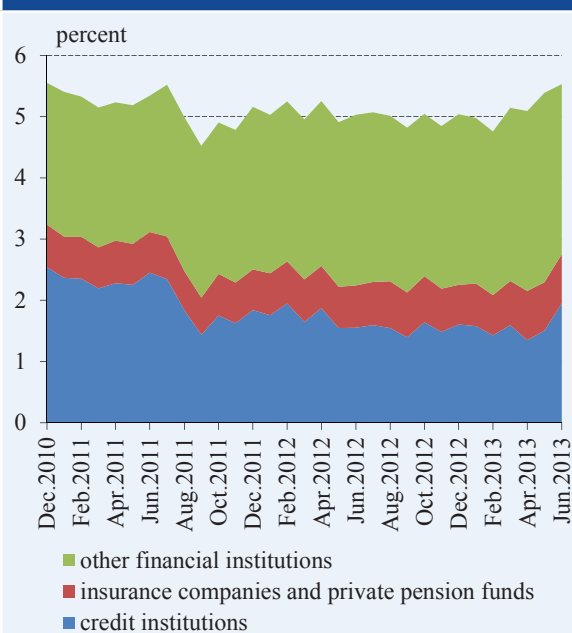
Credit institutions' direct dependence on the other financial system components remained at low levels in the period under review, in terms of both investments made and funds raised. At end-2012, the exposures to other domestic financial institutions accounted for less than 3 percent of total assets of credit institutions, the largest share being held by (mostly short-term) interbank exposures (Chart 3.3.).

**Chart 3.3. The share of exposures to domestic financial institutions in the balance sheet of credit institutions**



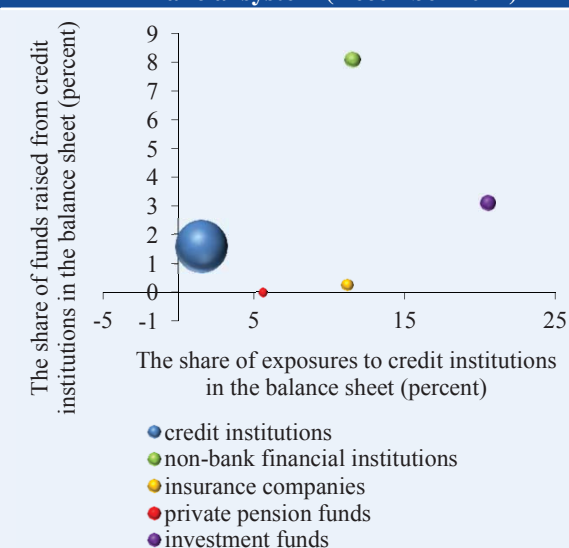
Source: NBR

**Chart 3.4. The share of funds raised from domestic financial institutions in the balance sheet of credit institutions**



Source: NBR

**Chart 3.5. Main linkages between the banking sector and the other components of the financial system (December 2012)**



Note: The circle size represents the relative share of the financial system components.

Source: NBR, FSA

The funds raised from domestic financial institutions made up about 5 percent of total assets of credit institutions (Chart 3.4.). The low and relatively steady levels of inter-sectoral exposures and funds of credit institutions point to limited direct contagion risks to the banking sector.

In the structure of the Romanian financial system, the main direct inter-sectoral dependencies are the exposures to the banking sector and the funds raised from banks (Chart 3.5.). At end-2012, investment funds, NBFIs and insurance companies had the most significant exposures to credit institutions. At the same time, credit institutions held a considerable share in the funds raised by NBFIs, whereas the banking sector had a relatively limited contribution to the resources of the other financial sectors.

The number of financial institutions operating in the domestic financial sector saw slight variations, further to the changes seen in the previous year (Table 3.1.). The banking sector comprised 40 entities at end-2012 and 41 entities at end-August 2013. Moreover, the number of insurance companies, financial investment services companies and NBFIs recorded in the General Register went down, whereas the number of investment funds and NBFIs in the Entry Register increased.

**Table 3.1. Number of financial institutions operating in Romania**

|   | <i>end of period</i> |       |       |
|---|----------------------|-------|-------|
|   | 2010                 | 2011  | 2012  |
| Credit institutions   | 42                   | 41    | 40    |
| Insurance companies   | 43                   | 43    | 39    |
| Insurance brokers   | 567                  | 584   | 584   |
| Private pension funds   | 22                   | 20    | 20    |
| Investment funds  | 76                   | 83    | 87    |
| Financial investment services companies                         | 6                    | 6     | 6     |
| Financial investment companies (FICs)                           | 55                   | 52    | 46    |
| Non-bank financial institutions (General Register) <sup>1</sup> | 210                  | 203   | 187   |
| Non-bank financial institutions (Entry Register)                | 5,043                | 5,286 | 5,420 |

Source: NBR, FSA

## 3.2. Banking sector

### 3.2.1. Challenges to the Romanian banking sector in the context of current vulnerabilities of the euro area financial system

At European level, a worsening of the sovereign debt crisis and a further deterioration of the macrofinancial context are considered the most severe risks to financial stability. In this context, the low profitability of the euro area banking sector undermined banks' capacity to build up capital reserves based on retained earnings. Despite the improved operating profit, European credit institutions continued to report profitability ratios significantly lower than in the pre-crisis period. Credit institutions' vulnerability in terms of a potential worsening of the sovereign debt crisis in the euro area derives from the large holdings of bonds issued by countries with a high public debt-to-GDP ratio. The uncertainties surrounding the quality of the financial assets in credit institutions' balance sheet, as well as the lack of a uniform treatment of the risk weights used to determine capital requirements for exposures with similar characteristics undermined investor confidence in the existence of an adequate capital level of credit institutions, able to absorb potential losses in full, without jeopardising debt holders' interests.

Credit institutions in Romania are not affected by risks stemming from holdings of securities issued by euro area Member States. In addition, the share of claims on the Romanian government sector in total banking system assets, albeit significant (18.5 percent in August 2013), is unlikely to pose threats to capital adequacy in the event of unfavourable domestic macroeconomic and/or political developments, the risks being limited to some shocks of unexpected increase in interest rates materialising.

<sup>1</sup> In compliance with Law No. 93/2009 on non-bank financial institutions.

The downtrend in the share of loans to the real sector against the background of weak demand for loans (partially compensated by the higher share of government securities), as well as the pro-cyclical strengthening of lending conditions and the change in the loan structure, in order to contain capital requirements by lowering the shares of high risk items, have a negative impact on the capacity to generate operating profit.

The tendency of the major foreign credit institutions operating in Romania to lower their exposure (as a result of liquidity constraints, of the measures taken by the NBR to contain foreign currency loans to unhedged borrowers and of the future implementation of the new CRD IV/CRR package) may raise sustainability issues of the business model for their subsidiaries in Romania, under the assumption of domestic savings insufficient to ensure adequate financing for the loan portfolio development.

The tighter capital requirements imposed on credit institutions in the context of the new legislative and regulatory framework, albeit desirable in terms of financial stability, brought about challenges that might generate unwanted spillover effects likely to put a damper on lending.

Unlike credit institutions in the euro area, forbearance, although identified in certain circumstances, does not pose a significant latent threat to the banking sector. Specific analyses identifying the time consistency of the loan classification methodology from a prudential perspective confirm the consistent mapping between internal risk assessment systems and the prudential classification categories, as well as the strong correlation between the level of risk implied by the classification and the respective default rates.

### 3.2.2. Structural developments

*In 2012 and the first half of 2013, credit institutions' ownership did not show any major changes. As regards the market share, the banks with Austrian, French and Greek capital came in first, while the group of banks with domestic capital saw their share narrowing after the reclassification of some banks. In 2012, financial intermediation<sup>2</sup> followed a slight downtrend amid weak lending activity. The concentration of assets, loans and deposits in the Romanian banking system, reflected by the share of the top five banks in the system, remained moderate as compared to other countries in the region.*

In 2012 and 2013 H1, the structure of the domestic banking sector reflected the changes in credit institutions' ownership. Thus, the number of credit institutions fell in 2012 versus 2011 after the merger through absorption of C.R.Firenze bank with Intesa SanPaolo Bank in 2012 Q4. In 2013 Q1, the number of credit institutions increased as a result of TBI Bank EAD Sofia entering the Romanian market by opening a local branch. There are 41 credit institutions operating in Romania, out of which 27 have foreign majority private capital, 2 have domestic majority private capital, 2 have fully or majority state-owned capital and 9 are foreign bank branches, to which adds a cooperative credit institution as well (Table 3.2.). In 2012, 27 EU credit institutions notified the NBR about their intention to directly provide financial services on the Romanian market based on the European Passport.

<sup>2</sup> Financial intermediation was calculated based on the monetary survey statistics as a ratio of gross loans to the private sector, gross assets, and corporate and household deposits, respectively, to GDP.

Table 3.2. Structural indicators of the Romanian banking system

|  | <i>end of period</i> |       |      |      |      |      |      |              |
|--|----------------------|-------|------|------|------|------|------|--------------|
|  | 2006                 | 2007  | 2008 | 2009 | 2010 | 2011 | 2012 | 2013<br>Aug. |
| Number of credit institutions  | 39                   | 42    | 43   | 42   | 42   | 41   | 40   | 41           |
| Number of credit institutions with majority private capital <sup>3</sup> | 37                   | 40    | 41   | 40   | 40   | 39   | 38   | 39           |
| Number of banks with majority foreign capital,                           | 33                   | 36    | 37   | 35   | 35   | 34   | 34   | 36           |
| <i>of which:</i>   |                      |       |      |      |      |      |      |              |
| – foreign bank branches  | 7                    | 10    | 10   | 10   | 9    | 8    | 8    | 9            |
| Assets of banks with majority private capital/Total assets (%)           | 94.5                 | 94.7  | 94.6 | 92.5 | 92.4 | 91.6 | 91.6 | 92           |
| Assets of banks with foreign capital/Total assets (%)                    | 88.6                 | 88.0  | 88.2 | 85.3 | 85.0 | 83.0 | 89.8 | 90.8         |
| Assets of top five banks/Total assets (%)                                | 60.3                 | 56.3  | 54.3 | 52.4 | 52.7 | 54.6 | 54.7 | 54           |
| Herfindahl-Hirschmann index (points)                                     | 1,171                | 1,046 | 926  | 857  | 871  | 878  | 852  | 834          |

Source: NBR

The market share of banks with majority foreign capital in total banking system assets rose markedly in 2013 to reach 90.8 percent at end-August 2013. The higher market share was ascribable to the reclassification of some banks with majority domestic capital under the category of banks with majority foreign capital<sup>4</sup>. Following these changes, the market share of banks with majority domestic capital dropped by half (9.2 percent in August 2013 against 18.8 percent in June 2012), standing lower than that of banks with majority French and Greek capital (13.2 percent and 12.4 percent respectively in August 2013). Similarly to the previous years, banks with majority Austrian capital held the largest market share in the Romanian banking system, i.e. 38 percent in August 2013.

During June 2012 – June 2013, the share capital of the Romanian banking sector remained relatively unchanged, rising by nearly lei 100 million (0.37 percent) due to the capital contribution by the private sector. Greek capital further prevailed (20.6 percent) in the domestic banking system, but remained on the downtrend it had embarked upon in 2010 (Chart 3.6.). Austrian capital came in second with a share of 20.3 percent, ahead of the banks with domestic capital holding a share of 20.1 percent. The shares of French, Hungarian and Cypriot capital posted increases as compared with 2011, whereas the shares of the Romanian and Greek capital declined.

<sup>3</sup> Including the Central Cooperatist Bank CREDITCOOP.

<sup>4</sup> In December 2012, Banca Transilvania shifted from the banks with majority domestic capital to the banks with majority foreign capital and diversified ownership, while in March 2013, Libra Internet Bank shifted from the banks with majority domestic capital to the banks with majority Cypriot capital.

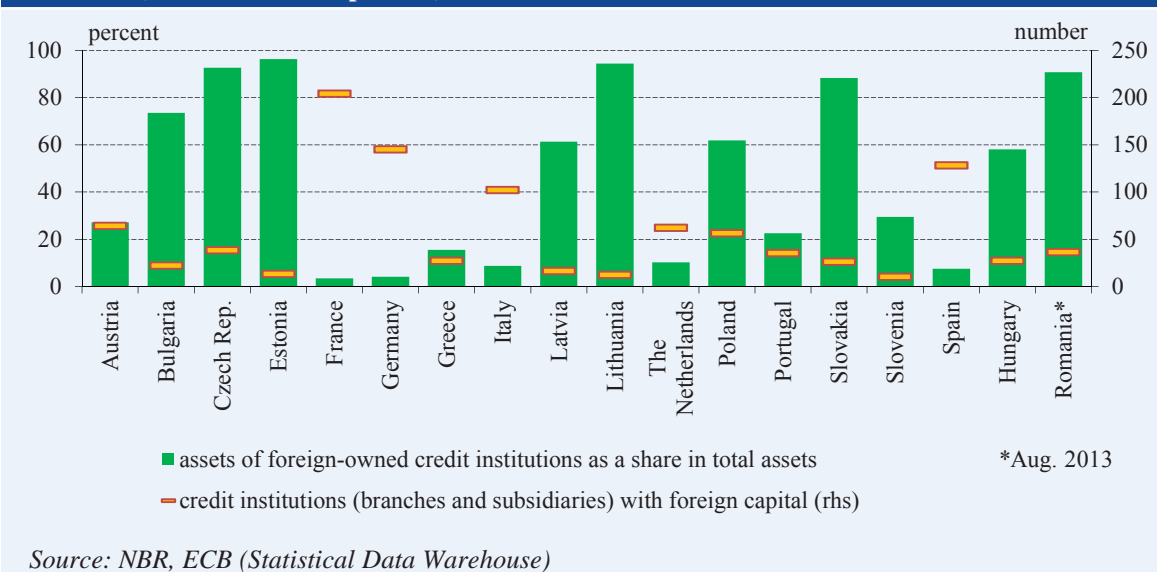
**Chart 3.6. Weight of credit institutions' share capital in total capital of the banking system and their market share (in terms of assets) by country of origin**



Source: NBR

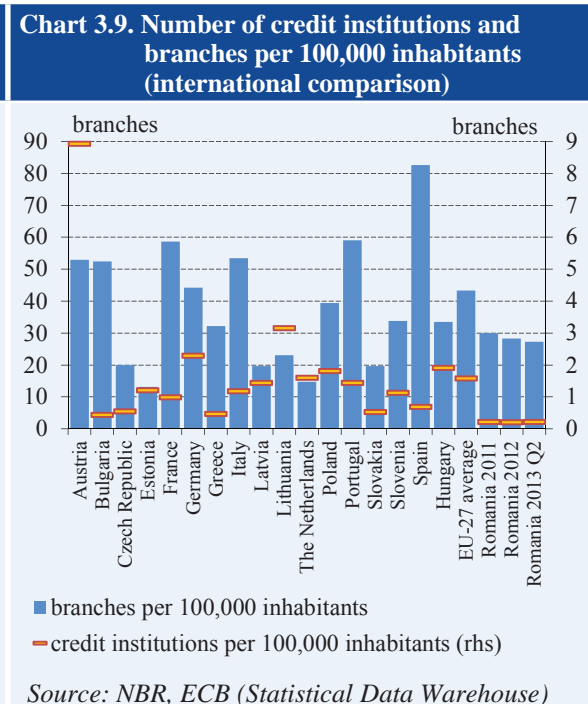
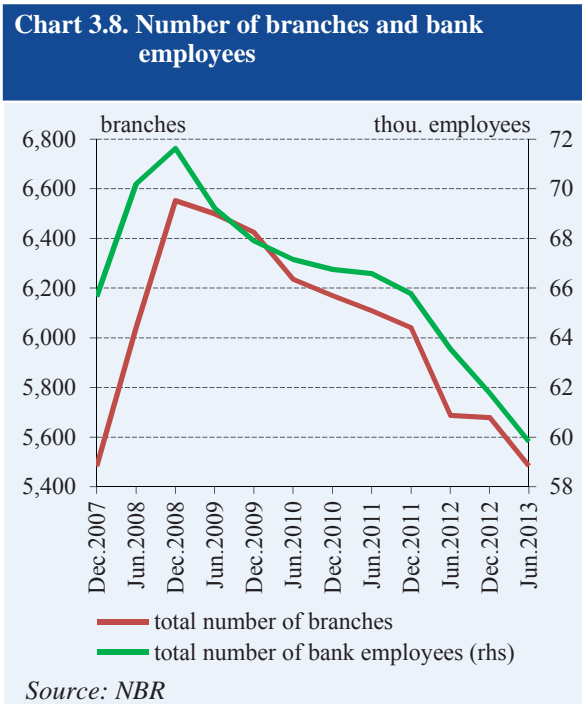
The Romanian banking system has further had a high connectivity degree to the European banking system (Chart 3.7.).

**Chart 3.7. Market share and number of credit institutions with foreign capital (international comparison)**

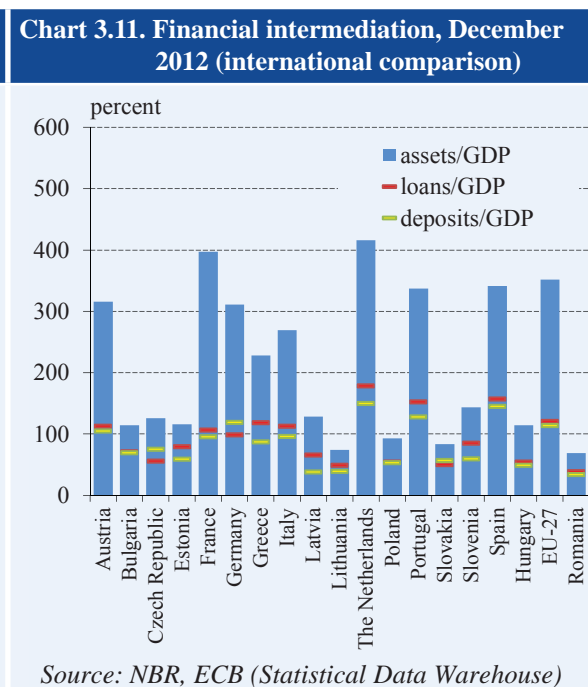
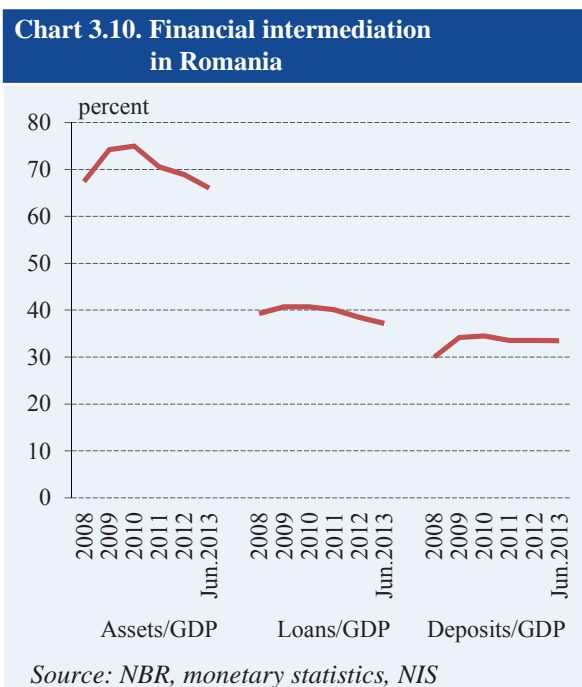


Source: NBR, ECB (Statistical Data Warehouse)

The tendency to cut costs with bank units and staff numbers, which started in 2009, continued in 2012 and in 2013 H1 as well. Branches and staff numbers decreased at a faster pace than in the previous year in line with balance sheet adjustment in the real sector and at the level of financial intermediaries. The number of branches declined by 323 in 2012 and by another 194 in the first half of 2013. The number of payrolls in the banking system dropped by 4,003 in 2012 and by 1,946 in 2013 H1 (Chart 3.8.). Consequently, the Romanian banking system further stood below the EU average as regards the number of branches and the number of credit institutions per 100,000 inhabitants (Chart 3.9.).

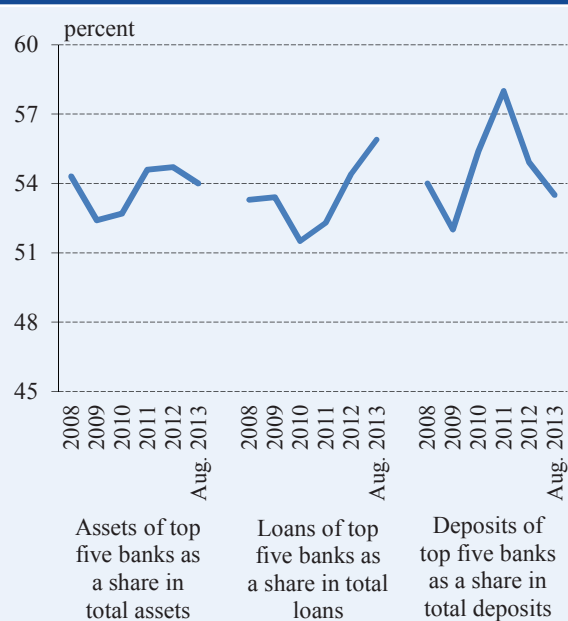


Financial intermediation in nominal terms, calculated as the ratio of loans to the private sector to GDP stood at 37.1 percent in June 2013, down from 38.4 percent in December 2012, against the background of weak lending activity; the share of gross bank assets in GDP stayed on the downtrend it had embarked on in 2011, to reach 66 percent in June 2013, as nominal GDP rose at a faster pace than nominal gross assets (Chart 3.10.). With regard to the share of corporate and household deposits in GDP (33.5 percent in June 2013), financial intermediation remained at a level similar to that recorded in December 2011 and December 2012. In comparison with the other Member States, in 2012, financial intermediation in Romania was still far below the EU-27 average (Chart 3.11.).



The concentration of the Romanian banking system, as reflected by the share of the top five banks in total bank assets, declined slightly to 54 percent (Chart 3.12.). Deposits also followed a similar trend, as in August 2013, the top five banks (in terms of their asset size) accounted for 53.5 percent of the deposits taken. The relative decline in the banking system's concentration in the first half of 2013 shows the stiffer competition among credit institutions in terms of deposits taken. The concentration of loans granted rose somewhat since the release of the 2011 Report (53.2 percent in August 2013). The Herfindahl-Hirschmann index, calculated for August 2013, highlights a higher concentration of loans (875 points) than that of deposits (825 points) and assets (834 points), respectively. The Herfindahl-Hirschmann index for assets shows a moderate concentration and places the Romanian banking system below the EU-27 average (Chart 3.13.).

**Chart 3.12. Concentration of the Romanian banking system**



Source: NBR

**Chart 3.13. Asset concentration (international comparison)**



Source: NBR, ECB (Statistical Data Warehouse)

### 3.2.3. Aggregate balance sheet of credit institutions

The period lapsed since the release of the previous report was mainly characterised by: (i) the contraction in banking activity, owing to lower exposures to both the real sector (foreign currency-denominated loans, in particular) and the government sector; (ii) the fast decline in external financing on the back of the drop in intra-group loans, which was partially offset by the deposits taken from the domestic market; (iii) the broadening of the domestic deposit base in foreign currency, and (iv) the supplementation of capital reserves due to the contribution of credit institutions' private shareholders. Despite the considerable drop in the flow of new foreign currency-denominated loans, the large stock of loans in foreign currency and the maturity mismatch between (particularly short-term) funds and financial assets are potential sources of vulnerability.

The persistent worldwide uncertainties and parent banks' strategy reassessments could enhance the changes in the balance sheets of credit institutions in Romania, particularly those with majority foreign capital.



### 3.2.3.1. Dynamics of bank assets

The aggregate balance sheet assets, in gross value terms<sup>5</sup> totalled lei 404,992.5 million at end-2012, up 3.1 percent (down 1.8 percent in real terms) as compared with 2011. In the first eight months of 2013, the dynamics of bank assets followed a downtrend, entering negative territory starting with April (annual change of -2.2 percent in August 2013, in nominal terms, and -5.7 percent in real terms, respectively). This development reflects the ongoing orderly balance sheet adjustment by some credit institutions, particularly those with majority foreign capital given (i) the persistence of unfavourable expectations on euro area economic growth, and (ii) the improvement in the risk profile of the bank asset portfolio in view of the anticipated ahead-of-schedule implementation by credit institutions of the Basel III requirements via the CRD IV/CRR package<sup>6</sup>. The deceleration is in line with the regional trend, as well as with the trend manifest across the economies of most EU Member States.

During August 2012 – August 2013, the following developments deserve mention:

(A) the annual change in loans to the private sector<sup>7</sup> followed a downward path, entering negative territory in March 2013 (-6.1 percent in August 2013, real terms); the decline was observed for both of the main categories of customers, being sharper in the case of foreign currency-denominated loans, and largely reflects the slow pace of economic recovery, the high credit risk and the ongoing balance sheet adjustment in the financial and non-financial sectors;

(B) the positive annual dynamics of claims on the government sector saw a trend reversal starting with February 2013 for the first time since the global financial crisis fallout affected the Romanian economy (-7.5 percent at end-August 2013, real terms), due chiefly to non-residents' larger holdings of government securities and the slower pace of increase of public debt-to-GDP ratio;

(C) the annual rate of decline of credit institutions' holdings with the central bank slowed down (from -14.8 percent in December 2012 to -8.6 percent in August 2013, real terms), partly as a result of lower external financing across the whole maturity spectrum; minimum reserve requirements remain an important liquidity reserve of the Romanian banking sector, with a prudential role as well.

In the period under review, the mentioned developments had only a marginal impact on the weights of the main balance sheet items in the aggregate asset structure (Table 3.3.).

Loans to the private sector posted relatively homogeneous developments in terms of main categories of debtors, both of them reporting a trend reversal in their annual growth rates<sup>8</sup>, which entered negative territory as a result of: (i) the further high risk aversion of banks, as reflected by tighter lending terms and conditions<sup>9</sup>; (ii) the high indebtedness of some categories of borrowers and their efforts towards adjusting their balance sheets and (iii) the larger number of companies falling under the insolvency law. The shares of the two institutional sectors in the loans to the private sector remained relatively unchanged, marginally in favour of non-financial corporations (52.2 percent in August 2013) to the detriment of households.

---

<sup>5</sup> The data source for the entire section is the monetary survey of credit institutions.

<sup>6</sup> The implementation schedule of the CRD IV/CRR package envisages the regulations to enter into force as of 2014.

<sup>7</sup> During August 2012 – August 2013, the contraction in lending totalled lei 6 billion.

<sup>8</sup> From 4.1 percent in real terms in August 2012 to -6.4 percent in August 2013 for non-financial corporations and from -0.8 percent to -5.8 percent for households, during the same period.

<sup>9</sup> According to the *NBR's Bank Lending Survey*, August 2013.

**Table 3.3. Asset structure of credit institutions operating in Romania**

|  | <i>percent of total assets</i> |              |              |              |              |              |              |              |              |              |
|--|--------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|  | 2008<br>Dec.                   | 2009<br>Dec. | 2010<br>Dec. | 2011<br>Dec. | 2012<br>Jun. | 2012<br>Aug. | 2012<br>Dec. | 2013<br>Mar. | 2013<br>Jun. | 2013<br>Aug. |
| Domestic assets,                           | 98.0                           | 96.6         | 96.8         | 97.7         | 97.8         | 97.3         | 97.2         | 96.7         | 96.8         | 96.8         |
| <i>of which:</i>                           |                                |              |              |              |              |              |              |              |              |              |
| Claims on the NBR and credit institutions, | 23.8                           | 18.6         | 16.5         | 15.3         | 13.9         | 13.4         | 13.4         | 13.4         | 13.0         | 13.5         |
| <i>of which:</i>                           |                                |              |              |              |              |              |              |              |              |              |
| – claims on the NBR                        | 21.8                           | 15.8         | 14.2         | 13.7         | 12.3         | 11.9         | 11.9         | 11.7         | 10.9         | 11.5         |
| Claims on the domestic non-bank sector,    | 63.4                           | 67.6         | 70.1         | 74.5         | 75.6         | 75.1         | 75.2         | 74.8         | 75.0         | 74.5         |
| <i>of which:</i>                           |                                |              |              |              |              |              |              |              |              |              |
| – claims on the government sector          | 5.0                            | 12.7         | 15.7         | 17.7         | 19.8         | 18.9         | 19.5         | 18.4         | 18.7         | 18.5         |
| – claims on companies                      | 29.2                           | 27.4         | 27.9         | 30.3         | 29.9         | 30.2         | 30.0         | 30.3         | 30.1         | 29.9         |
| – claims on households                     | 29.2                           | 27.5         | 26.5         | 26.5         | 25.9         | 26.1         | 25.8         | 26.1         | 26.1         | 26.0         |
| Other assets                               | 10.8                           | 10.3         | 10.3         | 7.9          | 8.3          | 8.7          | 8.6          | 8.5          | 8.9          | 8.9          |
| Foreign assets                             | 2.0                            | 3.4          | 3.2          | 2.3          | 2.2          | 2.7          | 2.8          | 3.3          | 3.2          | 3.2          |

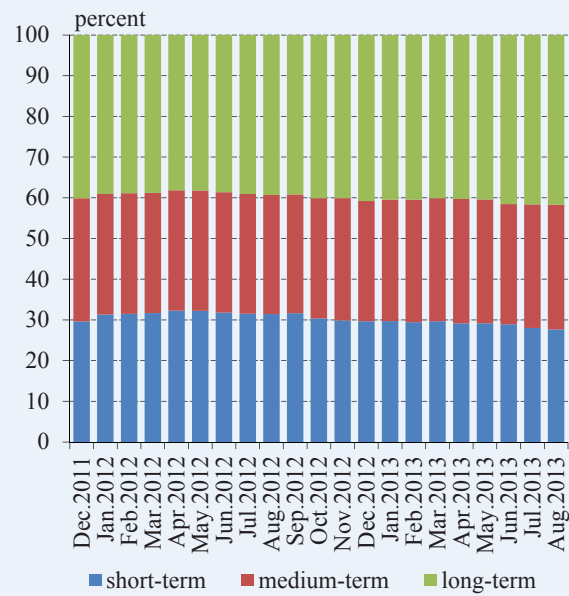
*Source: NBR – Aggregate monetary survey of credit institutions*

During August 2012 – August 2013, the decline was sharper in the case of foreign currency-denominated loans<sup>10</sup>, for both non-financial corporations (by 6.5 percent) and households (by 2.6 percent), largely as a result of: (i) the prudential measures taken by the central bank with a view to tightening lending conditions on foreign currency loans granted to unhedged borrowers, the most recent action being the adoption of NBR Regulation No. 17 of 12 December 2012 on certain lending conditions; (ii) credit institutions' steps to narrow the currency mismatch in order to reduce the vulnerabilities associated with the significantly lower financing in foreign currency, and (iii) the statistical effect exerted by the leu exchange rate movements. Looking at non-financial corporations, these developments caused the share of outstanding foreign currency-denominated loans to shrink by 2.2 percentage points (from 60.2 percent in August 2012 to 58 percent in August 2013), while in the case of households, the share of foreign currency-denominated loans remained relatively unchanged (67.1 percent in August 2013).

The contraction in foreign currency lending was seen on all three maturity terms for both of the main categories of debtors, being sharper in the case of short-term loans; the maturity breakdown revealed more substantial changes in the case of the corporate sector (Charts 3.14. and 3.15.).

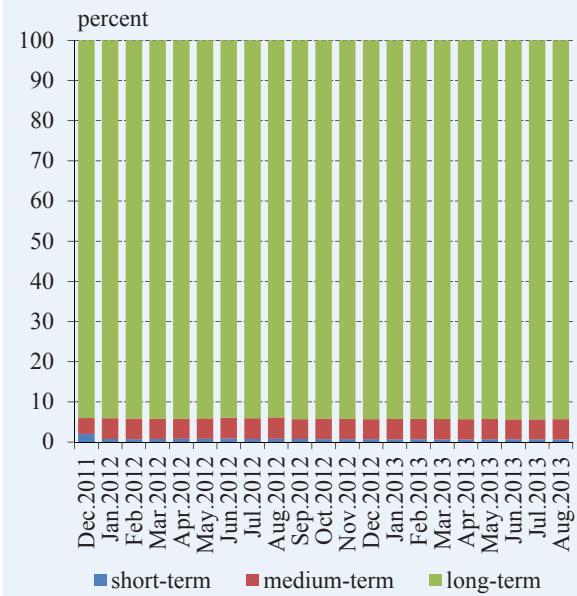
<sup>10</sup> At end-August 2013, the stock of foreign currency-denominated loans to the private sector, expressed in lei, narrowed by 4.6 percent versus August 2012 (when expressed in euro, foreign currency-denominated loans went down 4.1 percent).

**Chart 3.14. Breakdown of foreign currency-denominated loans to companies**



Source: NBR

**Chart 3.15. Breakdown of foreign currency-denominated loans to households**



Source: NBR

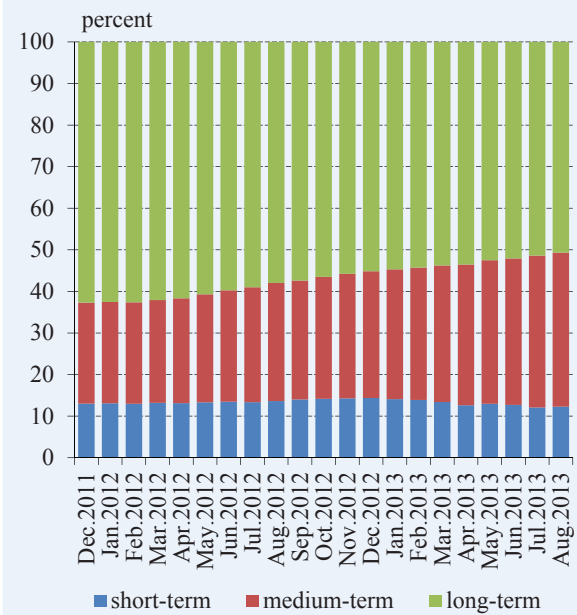
Turning to leu-denominated loans, the real contraction manifest starting with September 2012 was marginal (annual changes ranging from -1.8 percent to -0.3 percent) before becoming more pronounced since end-June 2013 (-2.9 percent in August 2013), mainly on account of the persistently sharp rates of decline of household loans (-5.2 percent in August 2013) and the slower dynamics reported by corporate loans (from 6.4 percent in August 2012 to -1.2 percent in August 2013).

**Chart 3.16. Breakdown of leu-denominated loans to companies**



Source: NBR

**Chart 3.17. Breakdown of leu-denominated loans to households**



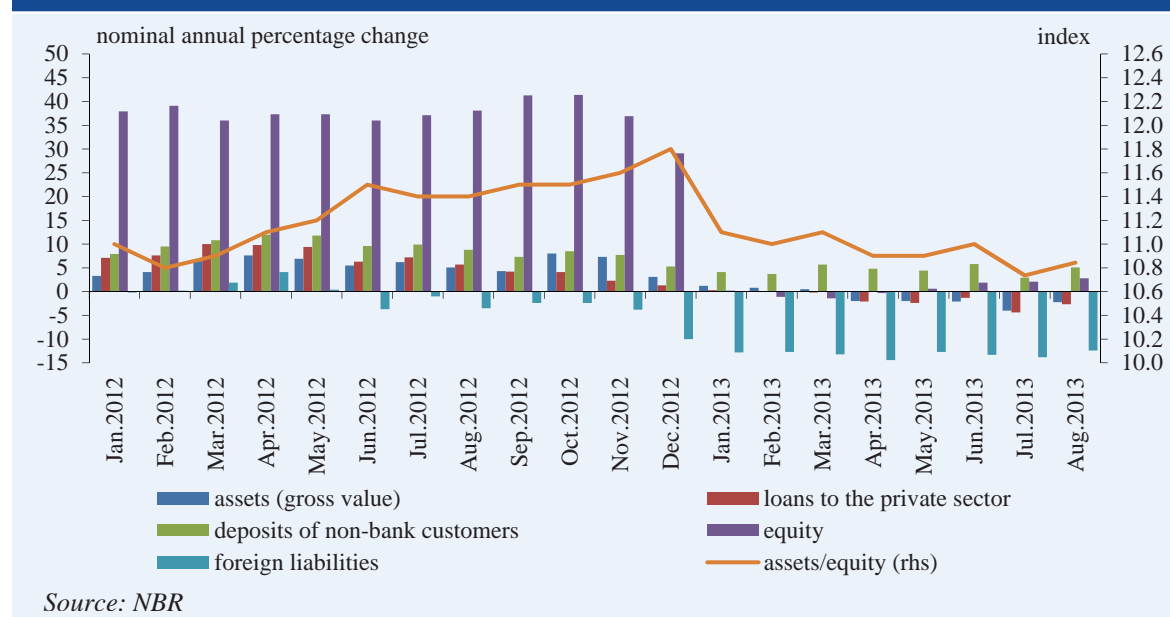
Source: NBR

In terms of maturity breakdown, the rate of change of leu-denominated loans was spurred by medium-term loans to both non-financial corporations (29.8 percent in August 2013, real annual changes) and households (23.7 percent). In fact, this category was the only one to see its share in the loan stock of both institutional sectors rising (Charts 3.16. and 3.17.).

In view of the persistent uncertainties associated with the global economic recovery, particularly in the euro area, deleveraging<sup>11</sup> became relatively broad-based across the EU. Although inevitable given the need to correct the unsustainable indebtedness generated during the expansion stage of the business cycle (adjustment that may contribute to alleviating some vulnerabilities, such as the relatively high private external debt ratio), the magnitude and the speed of deleveraging are matters of concern, as its possible disorderly developments could put additional pressure on the companies' profit and loss accounts, as well as on the ability of households to ensure their debt service in an European macroeconomic context marked by modest economic growth rates and reluctance to grant new loans. Thus, deleveraging may pose a significant risk to financial stability.

So far, deleveraging in Romania has been orderly, considering that: (i) the annual dynamics of aggregate assets, in gross value terms (Chart 3.18.), saw positive nominal values throughout 2012 (which ranged between 3.1 percent and 8.0 percent) and in the first quarter of 2013 (changes around 1 percentage point) and then declined, before stabilising at around -2 percent at end-August 2013; (ii) in August 2012 – August 2013, the loan-to-deposit ratio dropped by almost 9 percentage points (from 117.7 percent to 109 percent) and by 24 percentage points in the case of foreign currency loans (from 213 percent to 188.9 percent), as a result of the contraction in the volume of loans to the private sector and the broadening of the domestic deposit base; (iii) net sales of bank assets followed a downtrend and concerned primarily non-performing loans; (iv) the share of loans to the real sector in GDP narrowed by 1.7 percentage points to 38.4 percent in 2012; (v) the share of foreign liabilities followed a downward path (23.9 percent in August 2012; 23.2 percent in December 2012; 21.4 percent in August 2013); (vi) the ratio of gross bank assets to equity fluctuated marginally around 11 throughout the period under review.

**Chart 3.18. Developments in the main indicators relevant to assessing the magnitude of deleveraging**



Source: NBR

<sup>11</sup> According to the dedicated literature and in the ECB's opinion, deleveraging is associated with banks' balance sheet adjustment.

Developments in the stock of loans to the private sector were relatively similar to those posted by balance sheet assets, reflecting the persistence of a negative output gap and the pro-cyclical stance of commercial banks in granting new loans.

The analysis above shows the concern of the Romanian subsidiaries to adjust assets in relation to equity, namely to mitigate the risks associated with impaired assets.

### 3.2.3.2. Developments in own, raised and borrowed funds

The domestic deposit base continued to cover the largest part (51 percent in August 2013) of bank asset financing (Table 3.4.). The increased granularity attributed to the fact that around two thirds of the deposit volume were made by households has ensured higher stability in terms of deposit steadiness. In fact, ever since 2010, households have acted as a net creditor vis-à-vis the banking sector.

The share of household deposits in the balance sheet liabilities of the Romanian banks is relatively high as compared with the structure of financing sources of credit institutions in the euro area, where non-bank clients hold virtually 30 percent of total liabilities.

**Table 3.4. Liability structure of credit institutions operating in Romania**

|                              | <i>percent of total liabilities</i> |              |              |              |              |              |              |              |              |              |
|------------------------------|-------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                              | 2008<br>Dec.                        | 2009<br>Dec. | 2010<br>Dec. | 2011<br>Dec. | 2012<br>Jun. | 2012<br>Aug. | 2012<br>Dec. | 2013<br>Mar. | 2013<br>Jun. | 2013<br>Aug. |
| Domestic liabilities,        | 69.3                                | 73.6         | 73.2         | 73.5         | 75.2         | 76.1         | 76.8         | 77.8         | 78.0         | 78.6         |
| <i>of which:</i>             |                                     |              |              |              |              |              |              |              |              |              |
| – interbank deposits         | 2.1                                 | 5.4          | 3.4          | 3.4          | 5.0          | 4.7          | 4.6          | 2.5          | 2.2          | 1.9          |
| – government sector deposits | 3.1                                 | 2.1          | 1.7          | 1.4          | 1.5          | 1.4          | 1.3          | 1.3          | 1.3          | 1.4          |
| – corporate deposits         | 20.2                                | 19.3         | 19.0         | 19.0         | 17.7         | 18.3         | 18.5         | 18.9         | 19.1         | 19.5         |
| – household deposits         | 24.4                                | 26.7         | 27.0         | 28.7         | 29.2         | 29.5         | 30.2         | 31.7         | 31.6         | 31.8         |
| – capital and reserves       | 10.6                                | 12.0         | 14.2         | 16.2         | 16.9         | 17.3         | 18.0         | 18.8         | 19.3         | 19.7         |
| – other liabilities          | 8.9                                 | 8.1          | 7.9          | 4.8          | 4.9          | 4.9          | 4.2          | 4.6          | 4.4          | 4.3          |
| Foreign liabilities          | 30.7                                | 26.4         | 26.8         | 26.5         | 24.8         | 23.9         | 23.2         | 22.2         | 22.0         | 21.4         |

*Source: NBR – Aggregate monetary survey of credit institutions*

The positive dynamics of deposits taken from resident non-government customers decelerated significantly during August 2012 – August 2013 (from 4.7 percent to 1.4 percent, real annual change). The slowdown was more pronounced in the case of leu-denominated deposits. These developments show (i) the sharper declines in the interest rates on leu- and foreign currency-denominated deposits applied by banks to both companies and households in 2013; (ii) the lower amounts available for saving in the context of the slower dynamics of average net wage<sup>12</sup> and the relatively high indebtedness, and (iii) the statistical effect of the transitory increase in the annual inflation rate.

<sup>12</sup> According to the NIS press releases on average net wage earnings.

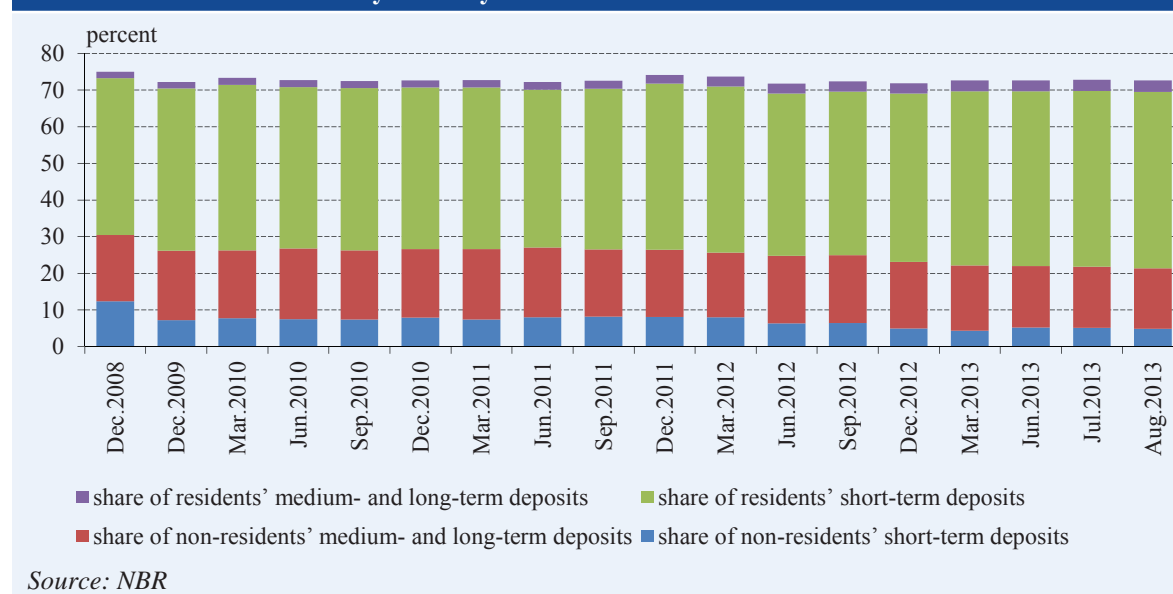
Non-financial corporations had a small contribution to the expansion in the volume of deposits, the 5.5 percent nominal rise recorded at end-August 2013 being largely attributed to a base effect; in real terms, the annual rate of change of corporate deposits was negative for the entire period under review (except the 1.8 percent advance seen in August 2013), indicating that deposits were used to offset the more difficult access to new financing. The annual growth rate of household deposits followed a sharp downtrend, yet it remained in positive territory (from 6.9 percent in August 2012 to 1.7 percent in August 2013, real terms).

For both sectors, the deceleration was mostly ascribable to leu-denominated deposits<sup>13</sup>, whereas foreign currency-denominated deposits saw positive changes throughout the period under consideration, which were higher in the case of household deposits<sup>14</sup>. The divergent developments in the foreign currency-denominated loans to the private sector and the foreign currency funds raised from the domestic market indicate banks' concern to lower the vulnerabilities related to the currency mismatch of bank operations.

The maturity breakdown showed the mixed preferences of customers, namely the rise in household deposits with maturities of more than one year and the increase in non-financial corporations' overnight deposits. The former development, together with the negative dynamics of long-term loans to the real sector, suggests banks' more prudent concern to ensure a balanced maturity structure of the balance sheet.

Nevertheless, short-term deposits (overnight and up to one year) further held a prevailing share (Chart 3.19.), thus representing a potentially significant source of vulnerability for the Romanian banking sector, given that they ensure the financing of long-term assets in particular.

**Chart 3.19. Share of deposits taken from residents (companies and households) and non-residents in total liabilities by maturity**



<sup>13</sup> The annual growth rate of household leu-denominated deposits slowed down to -0.8 percent in August 2013 from 6.4 percent in August 2012 (real terms); as regards non-financial corporations, the annual rate of change saw a relative improvement at end-August 2013 (3 percent in real terms) after 14 consecutive months of annual negative dynamics.

<sup>14</sup> Household foreign currency-denominated deposits (expressed in lei) went up 9.8 percent in August 2013 (when expressed in euro, they rose by 10.4 percent), while those of non-financial corporations increased by 2.7 percent (3.2 percent).

The rate of decline of foreign financing (accounting for 21.4 percent of aggregate liabilities at end-August 2013) gained speed in August 2012 – August 2013 (from -7.1 percent to -15.5 percent, real annual change). Behind this development stood: (i) the capital increases necessary for parent banks to consolidate their capital base in view of the fast implementation of the Basel III capital requirements via the CRD IV/CRR package; (ii) banks' shift in focus towards granting loans depending on the non-performing loan ratio developments at sectoral level and capping lending to certain sectors considered risky following the decisions taken by credit institutions, as well as the lending policy pursued by parent banks. The decline was visible across the whole maturity spectrum, being sharper for funds raised with maturities of up to two years, which supports the assessment according to which deleveraging has unfolded orderly so far. The share of long-term funds raised was further prevalent in total foreign liabilities (70 percent in August 2013).

Own capital remained robust, about 70 percent of its volume being accounted for by the contribution of private shareholders of credit institutions in the form of share/endowment capital.

#### **3.2.4. Capital adequacy**

*Adequate capitalisation has remained a characteristic of the Romanian banking system, being supported by the regulatory and prudential supervisory measures adopted by the central bank in recent years. The comfortable solvency and Tier 1 capital ratios create the pre-requisites for the adequate implementation of the additional capital requirements imposed by the new Basel III regulations, which are to be transposed in the national legislation in the period ahead.*

##### **3.2.4.1. Developments in own funds of banks, Romanian legal entities**

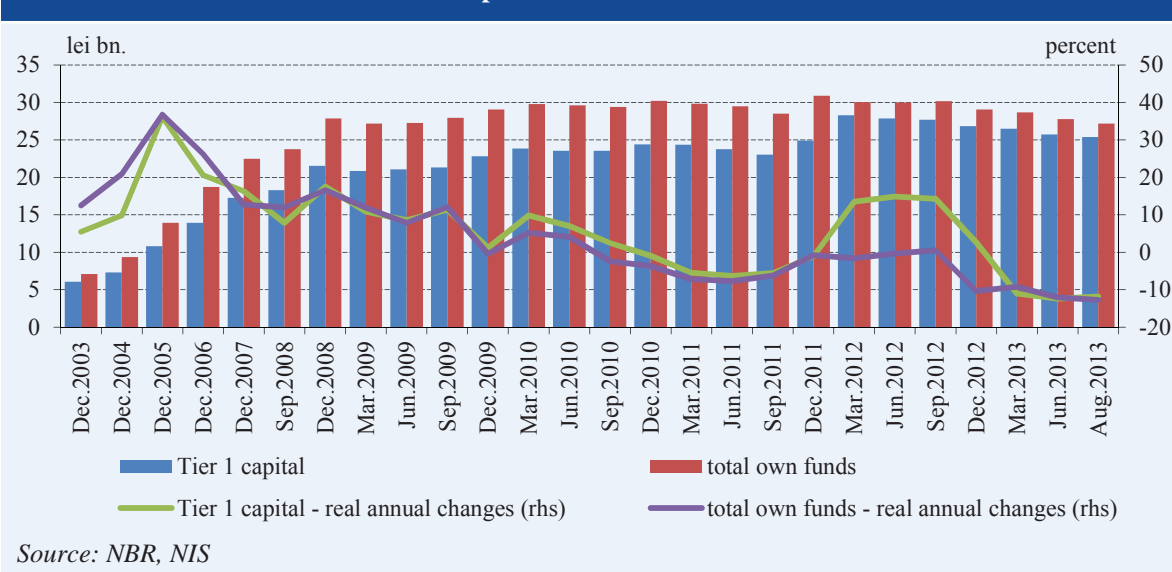
The still fragile macroeconomic conditions in which banks carried out their activity in the period lapsed since the release of the previous Financial Stability Report continued to put pressure on the own funds of banks, Romanian legal entities<sup>15</sup> (the volume of total own funds<sup>16</sup> decreased by 5.9 percent in December 2012 and by 9.5 percent in August 2013; year on year, nominal terms). In real terms, the decline in own funds was sharper in 2013 H1 (down by about 12 percent in August 2013) for both total own funds and Tier 1 capital (Chart 3.20.). Mention should be made that the decrease was accelerated by the high inflation rate during the reference period (over 5 percent during September 2012 – June 2013).

---

<sup>15</sup> According to NBR Regulation No. 18 (r1) of 14 December 2006 (republished in *Monitorul Oficial al României*, Part One, No. 311 of 5 May 2011) on own funds of credit institutions and investment firms, foreign bank branches originating in the EU Member States, which perform banking services in Romania, do not submit reports on own funds to the authority in the host country, considering that the parent bank has to observe capital requirements at consolidated level, according to the EU regulations. In August 2013, the Romanian banking system did not comprise any non-EU foreign bank branches.

<sup>16</sup> The volume of banks' own funds totalled lei 27.2 billion at end-August 2013 (compared with lei 30.0 billion in August 2012 and lei 29.0 billion in December 2012).

Chart 3.20. Total own funds and Tier 1 capital



Nevertheless, the level and quality of own funds of the Romanian banks may be assessed as adequate, considering that: (i) they further support a high solvency ratio (14.7 percent in June 2013); (ii) they consist mostly of Tier 1 capital<sup>17</sup>, which has a permanent nature; (iii) the NBR decided to further use prudential filters<sup>18</sup> for the calculation of own funds and prudential indicators throughout 2013 and to gradually phase them out while implementing the additional Basel III capital requirements (2014-2018). The central bank's estimates indicate that the solvency ratio, calculated by removing prudential filters, is about 4 percentage points higher than the reading reported in compliance with the prudential regulations in force; the estimated solvency ratio in the absence of prudential filters shows that capital adequacy is above the levels recorded by many other countries in the region.

In the first eight months of 2013, the structure of aggregate own funds (Table 3.5.) did not see significant changes as compared with the previous year. Tier 1 capital further held an overwhelming share (nearly 93 percent) in total own funds of credit institutions. The marginal contribution of Tier 2 capital (about 7 percent) may be attributed not only to the lower volume of funds in this category (mostly revaluation reserves and subordinated debt), but also to the methodology of implementing prudential filters (these funds are diminished by 50 percent of the positive difference between total prudential valuation adjustments and total adjustments for impairment allocated to the financial assets representing loans/investments, within the limit of the gross value of Tier 2 capital).

<sup>17</sup> In line with the prudential regulations in force, funds are classified as Tier 1 capital provided that they may be used at any time and primarily to absorb losses, do not imply fixed costs for the credit institution and they are readily available for the credit institution, namely they have been paid in full.

<sup>18</sup> The most significant prudential filter specific to Romania refers to the positive difference between prudential value adjustments and adjustments for impairment (IFRS provisions) related to loans to non-bank clients for which banks establish minimum capital requirements at individual level, according to the standard approach.



**Table 3.5. Own funds and capital adequacy indicators**

|   | 2008<br>Sep. | 2008<br>Dec. | 2009<br>Dec. | 2010<br>Dec. | 2011<br>Dec. | 2012<br>Jun. | 2012<br>Dec. | 2013<br>Mar. | 2013<br>Jun. | 2013<br>Aug. | percent |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------|
| Percent of total own funds:             | 100          | 100          | 100          | 100          | 100          | 100          | 100          | 100          | 100          | 100          |         |
| Tier 1 capital                          | 76.9         | 77.3         | 78.6         | 80.8         | 80.7         | 93.0         | 92.3         | 92.4         | 92.6         | 93.4         |         |
| Tier 2 capital                          | 23.1         | 22.7         | 21.4         | 19.2         | 19.3         | 7.0          | 7.7          | 7.6          | 7.4          | 6.6          |         |
| Solvency ratio<br>(> 8 percent)         | 11.9         | 13.8         | 14.7         | 15.0         | 14.9         | 14.7         | 15.0         | 15.0         | 14.7         | -            |         |
| Tier 1 capital ratio<br>for credit risk | 10.0         | 11.8         | 13.4         | 14.2         | 14.3         | 16.4         | 16.6         | 16.7         | 16.4         | -            |         |
| Tier 1 capital ratio                    | -            | -            | -            | 12.1         | 12.0         | 13.7         | 13.8         | 13.9         | 13.6         | -            |         |

Source: NBR

The structure of Tier 1 capital reflects its adequate quality (Chart 3.21.), as well as the unconditioned loss-absorbing capacity: (i) share capital (gross)<sup>19</sup> remained the prevalent item (84.7 percent of total Tier 1 capital in December 2012 and 88.3 percent in August 2013), being made readily available to the bank and paid in full (shareholders' new capital contributions amounted to EUR 111 million in 2012 and to EUR 42 million in 2013 H1); (ii) share premiums, which added to the capital made available by shareholders, further posted a significant level (8.1 percent of total Tier 1 capital in December 2012 and 8.5 percent in August 2013); (iii) the volume of reserves<sup>20</sup> was further high, although it was partially offset by the volume of deductible items<sup>21</sup> introduced in order to preserve the adequate quality of Tier 1 capital. The negative financial result recorded by banks in 2012 eroded significantly Tier 1 capital (down 12 percent), the impact of losses being much lower in the first eight months of 2013 (down 2.2 percent in August 2013) amid the improved financial position of the banking system. The credit institutions which reported positive financial results used the audited profit to increase their own funds (up 2.5 percent in December 2012<sup>22</sup> and 3.3 percent in August 2013).

Although the prudential regulations applicable in Romania, harmonised with the EU regulations in 2010<sup>23</sup>, allow the use of hybrid capital instruments to increase Tier 1 capital, credit institutions

<sup>19</sup> From a methodological point of view, in line with the IFRS accounting standards used as an accounting basis starting 1 January 2012, share capital is adjusted for inflation, with retained earnings as the corresponding account, so that total Tier 1 capital is not affected.

<sup>20</sup> As of 1 January 2012, the gross value of reserves (namely the "retained earnings" item) includes the difference between prudential provisions set up in compliance with NBR Regulation No. 3/2009 as of 31 December 2011 and the adjustments for impairment under IFRS calculated as at 1 January 2012. In addition, as of 1 January 2012, the positive difference from the prudential valuation adjustments determined based on the prudential regulations applicable starting with the 2012 financial year and the adjustments for impairment under IFRS is recorded in the off-balance sheet account 995 "Prudential filters".

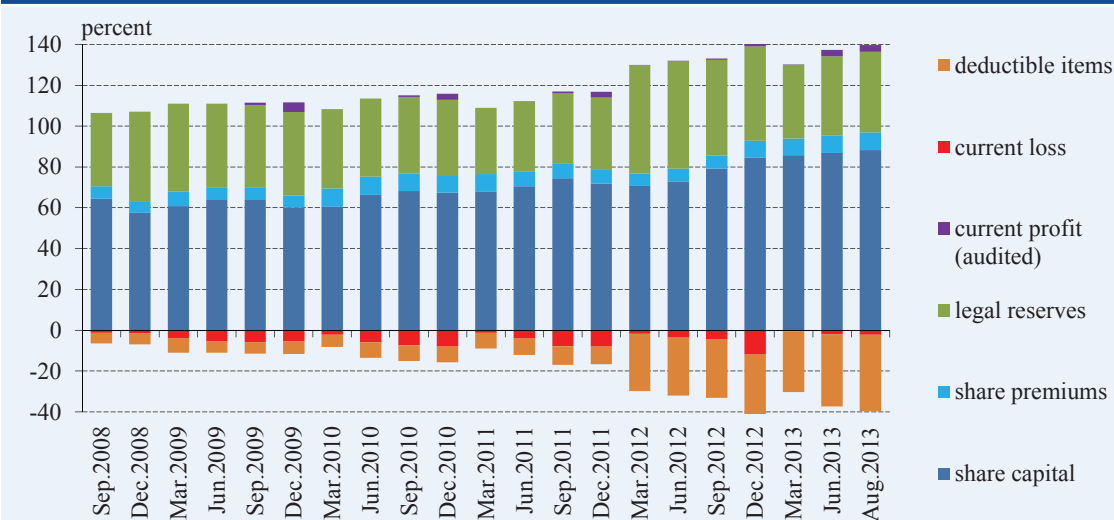
<sup>21</sup> Starting with 1 January 2012, the deductible items specific to IFRS provisions, as well as those specific to Romania (a significant impact having the prudential filter determined as the positive difference between prudential value adjustments and adjustments for impairment under IFRS, 50 percent of which being deductible from Tier 1 capital and 50 percent from Tier 2 capital) added to the prudential deductible items used in the period of implementing accounting regulations compliant with EU directives.

<sup>22</sup> 12 of the 31 credit institutions, Romanian legal entities, reported a profit for the 2012 financial year.

<sup>23</sup> NBR-NSC Regulation No. 15/18/30 September 2010 amending and supplementing NBR-NSC Regulation No. 18/23/2006 on own funds of credit institutions and investment firms transposed into national law Directive 2009/111/EC of the European Parliament and of the Council of 16 September 2009 amending Directives 2006/48/EC, 2006/49/EC and 2007/64/EC (published in the Official Journal of the European Union L 302 of 17 November 2009), supplementing the regulatory framework with the possibility provided to banks of using hybrid capital instruments within Tier 1 capital. At the same time, the central bank imposed a number of requirements that banks have to meet in case they resort to this option, with a view to ensuring the adequate quality of the aforementioned component of own funds.

made no resort so far to such category of resources, which indicates once more the adequate quality of Tier 1 capital, based exclusively on traditional sources of funds (capital, share premiums, reserves and audited profit).

**Chart 3.21. Breakdown of Tier 1 capital taken into account for determining solvency**



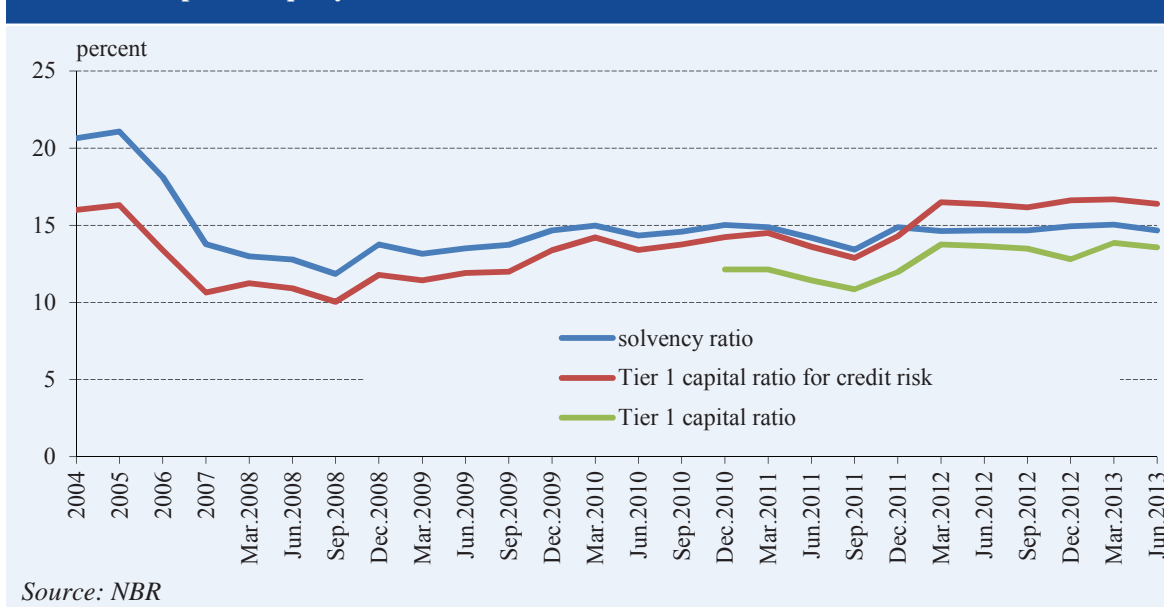
Source: NBR

### 3.2.4.2. Analysis of capital adequacy indicators

The robust level of capital adequacy has remained a characteristic of the Romanian banking system, due also to the regulatory and prudential supervisory measures adopted by the central bank once the fallout from the international financial crisis was manifest in Romania, namely: (i) imposing a 10 percent minimum prudential threshold set in the supervisory process for the solvency ratio (as compared to the 8 percent minimum required level applicable in Romania and in the EU) on credit institutions considered to have a high risk profile in order to enhance banks' capacity to withstand endogenous and exogenous shocks generated by the challenging international macroeconomic context; (ii) introducing prudential filters, also at individual level, along with the implementation by banks of the IFRS as an accounting basis, which resulted in the increased capacity of own funds' to absorb losses from the banking business and the preservation of prudent levels of the solvency ratio<sup>24</sup>.

<sup>24</sup> The solvency ratio estimated for 2012, excluding prudential filters, stands significantly higher than that reported by credit institutions in compliance with the regulations in force (i.e. 18.7 percent, about 4 percentage points above the reported level). The positive difference has been maintained in 2013, considering that the volume of prudential filters remained relatively unchanged in 2012 and 2013 H1.

Chart 3.22. Capital adequacy indicators



In this context, in the period lapsed from the previous Financial Stability Report, the indicators used to assess the capital adequacy, calculated for the Romanian banking system (Chart 3.22.), further reported high levels, as follows:

- the solvency ratio<sup>25</sup> stood at 15 percent in December 2012 and at 14.7 percent in June 2013 (a level similar to that recorded in June 2012);
- Tier 1 capital ratio for credit risk<sup>26</sup> remained at the high level recorded in the previous period (16.4 percent in June 2013);
- Tier 1 capital ratio<sup>27</sup>, which takes into account the total capital requirement (namely the total requirements for credit risk, operational risk, market risk and settlement/delivery risk), was 13.6 percent in June 2013 (a level similar to that seen in the same year-ago period). The level of Tier 1 capital ratio is very close to that of the solvency ratio, which reflects the high quality of own funds of banks, Romanian legal entities, as well as their capacity to withstand potentially adverse shocks.

The level of the capital adequacy indicators reported by the Romanian banking system creates the conditions for the adequate implementation of the additional capital requirements imposed by Basel III regulations, which are to be introduced in the national legislation via the CRD IV/CRR package<sup>28</sup> applicable starting with 2014 (the package will be gradually implemented until the end of 2018).

<sup>25</sup> The minimum required level of the solvency ratio is 8 percent, considering the ratio of own funds to capital requirements is 1 at least.

<sup>26</sup> Tier 1 capital ratio for credit risk is determined as a ratio of Tier 1 capital to total risk-weighted assets and off-balance-sheet items.

<sup>27</sup> Tier 1 capital ratio is calculated as a ratio of Tier 1 capital to total capital requirements.

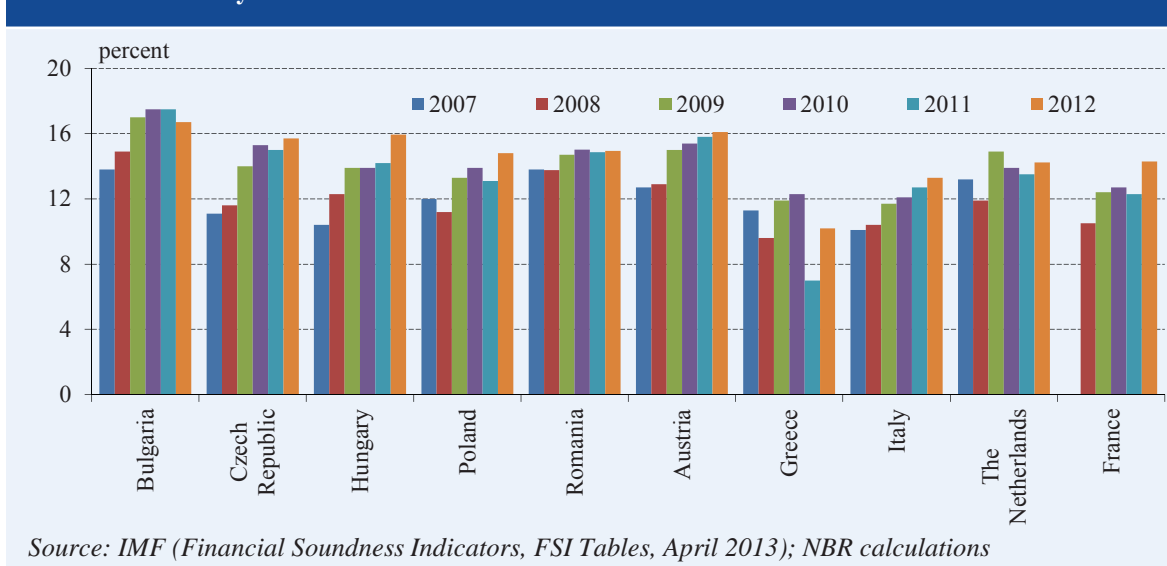
<sup>28</sup> Directive 2013/36/EU of the European Parliament and of the Council of 26 June 2013 on the access to the activity of credit institutions and the prudential supervision of credit institutions and investment firms and Regulation No. 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms.

The Regulation on prudential requirements for credit institutions of the European Parliament (directly applicable by credit institutions in order to avoid implementation discrepancies) imposes a minimum Common Equity Tier 1 capital requirement<sup>29</sup> of 4.5 percent of the risk-weighted assets (which is significantly higher than the minimum level of 2 percent, applicable in compliance with Basel II regulations). The total capital requirements (including both Tier 1 capital and Tier 2 capital) remained unchanged at 8 percent of risk-weighted assets. In terms of flexibility at national level, the European Parliament's Regulation allows Member States' authorities to impose, for a period of 2 years which may be extended, tighter macroprudential requirements for authorised entities in order to mitigate the macroprudential risk or the systemic risk (these may be applied to own funds, liquidity requirements, large exposures, capital conservation buffer, exposures to other financial entities, risk weights used to diminish the unsustainable increase in real estate prices or to transparency and disclosure requirements, etc.). The CRD IV/CRR package that Member States have to transpose into national legislation imposes additional requirements apart from those above-mentioned, namely: (i) a common requirement for all the EU banks consisting in holding/maintaining a capital conservation buffer (in the form of Common Equity Tier 1 capital of 2.5 percent of risk-weighted assets), and (ii) a requirement applicable in relation to the specific situation concerning the setting of a countercyclical capital buffer of up to 2.5 percent. Additionally, Member States may introduce a systemic risk buffer (in the form of Common Equity Tier 1 capital) for the financial sector as a whole or for one or more subsets of institutions, as well as two capital buffers considering the systemic importance of institutions (a capital buffer for global systemically important institutions, imposed strictly at consolidated level, and a capital buffer for domestic systemically important institutions, imposed at a consolidated, individual or sub-consolidated level, as appropriate). Mention should be made that such capital buffers are generally not cumulative.

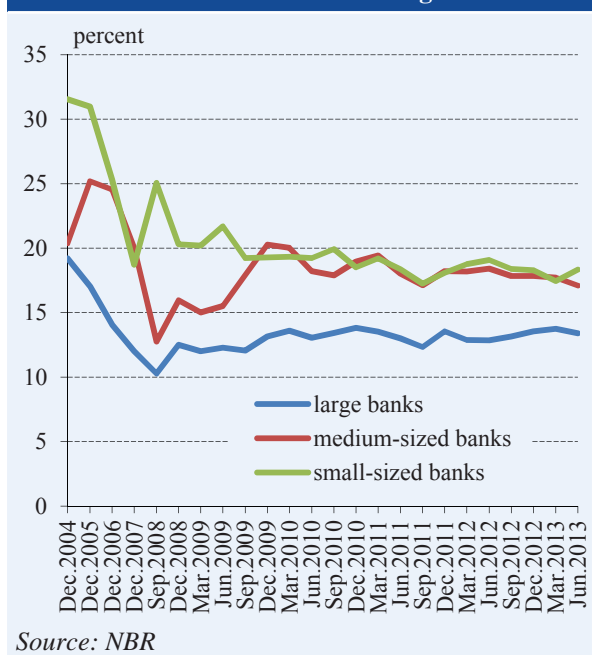
The solvency ratio for the Romanian banking system, calculated in line with prudential regulations in force (which is lower by about 4 percentage points, following the impact of prudential filters on own funds), is similar to those reported by the countries in the region (Chart 3.23.). Moreover, the home countries of the parent banks with subsidiaries in Romania have an adequate level of capitalisation (Austria stands out with a solvency ratio of 16.1 percent in 2012, which ensures a certain comfort to host countries, including Romania, given that in August 2013, the Austrian banks held 38 percent of the Romanian bank assets). The exception is Greece, which reported a solvency ratio of 10.2 percent in 2012 (however, the indicator has followed a recovery trend after the 7 percent reading recorded in the previous year).

<sup>29</sup> Only common shares are taken into account in the calculation of Common Equity Tier 1 capital, the preferred shares being excluded.

**Chart 3.23. Solvency ratio in selected EU Member States**



**Chart 3.24. Solvency ratio by group of banks in terms of asset holdings**

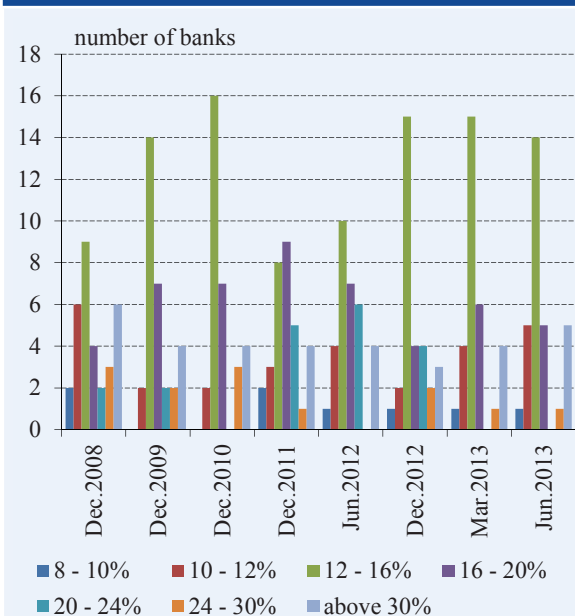


A more in-depth analysis of capital adequacy, by monitoring the breakdown of solvency ratio by group of banks in terms of asset size<sup>30</sup> (Chart 3.24.), reveals the improvement in the position of large banks (the solvency ratio added 0.5 percentage points in June 2013 versus June 2012 to 13.4 percent). The solvency ratio calculated for the other two groups of banks followed a downward path during June 2012 – June 2013, against the background of the negative financial results that affected the volume of own funds. Nevertheless, mention should be made that the solvency ratio for the two groups of banks was above the system average.

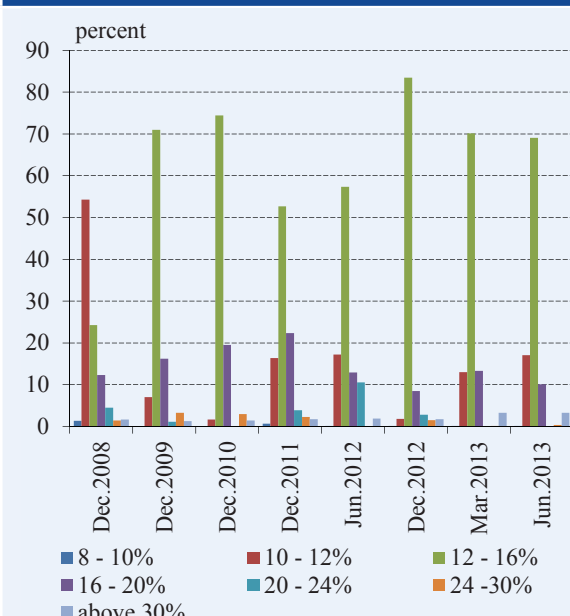
Bank distribution in terms of solvency ratio (Chart 3.25.) shows that most banks (i.e. 14) stood in the 12-16 percent range in June 2013. One small-sized bank (holding 0.12 percent of the banking system assets) recorded a solvency

ratio below 10 percent at end-June 2013 (however, the reported solvency ratio was higher than the minimum required threshold of 8 percent) and therefore supervisory measures were applied to it. The number of entities which posted high solvency ratios (over 16 percent) went down to 11 in June 2013 (from 17 in June 2012).

<sup>30</sup> The NBR classifies credit institutions in terms of their asset shares in total assets of the banking system, as follows: large banks, with a share of assets higher than 5 percent of total bank assets, medium-sized banks whose assets hold shares ranging between 1 and 5 percent of total assets and small-sized banks whose assets account for less than 1 percent of aggregate assets.

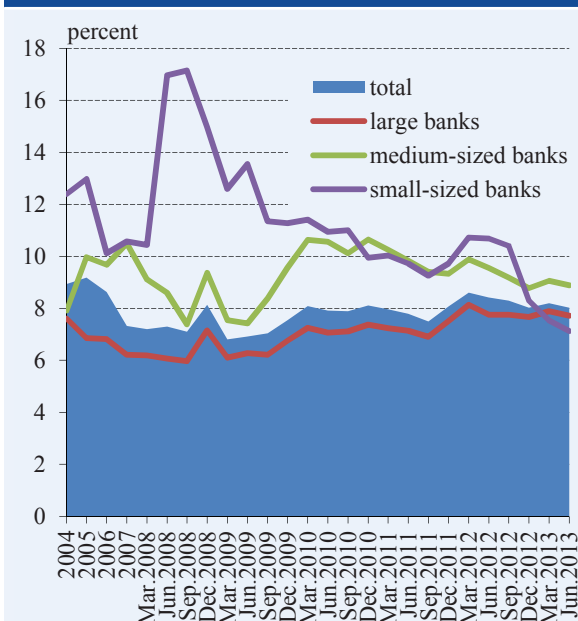
**Chart 3.25. Bank distribution in terms of solvency ratio**

Source: NBR

**Chart 3.26. Bank asset distribution in terms of solvency ratio**

Source: NBR

Bank asset distribution in terms of the solvency ratio (Chart 3.26.) reveals their concentration in the 12-16 percent range (69.1 percent in June 2013). The share of assets held by banks with high solvency ratios (over 16 percent) remained unchanged at 14 percent in December 2012 and June 2013.

**Chart 3.27. Leverage ratio – total and by group of banks**

Source: NBR

For analysis purposes, the central bank also uses the leverage ratio<sup>31</sup>, an indicator measuring the extent to which banks use own sources to finance their activity (Chart 3.27.). The indicator relevance derives from using the accounting values of assets, being complementary to indicators determined based on the risk-weighted assets. The leverage ratio calculated for the Romanian banking sector was further high in the period under consideration (8 percent in December 2012 and June 2013), reflecting the comfortable capitalisation of banks. The Regulation on prudential requirements for credit institutions issued by the European Parliament for the implementation of Basel III requirements imposes a minimum leverage ratio, whose level will be determined based on a report submitted by the European Commission by 31 December 2016, followed by an observation period. As of 1 January 2015, banks shall report the level of this indicator.

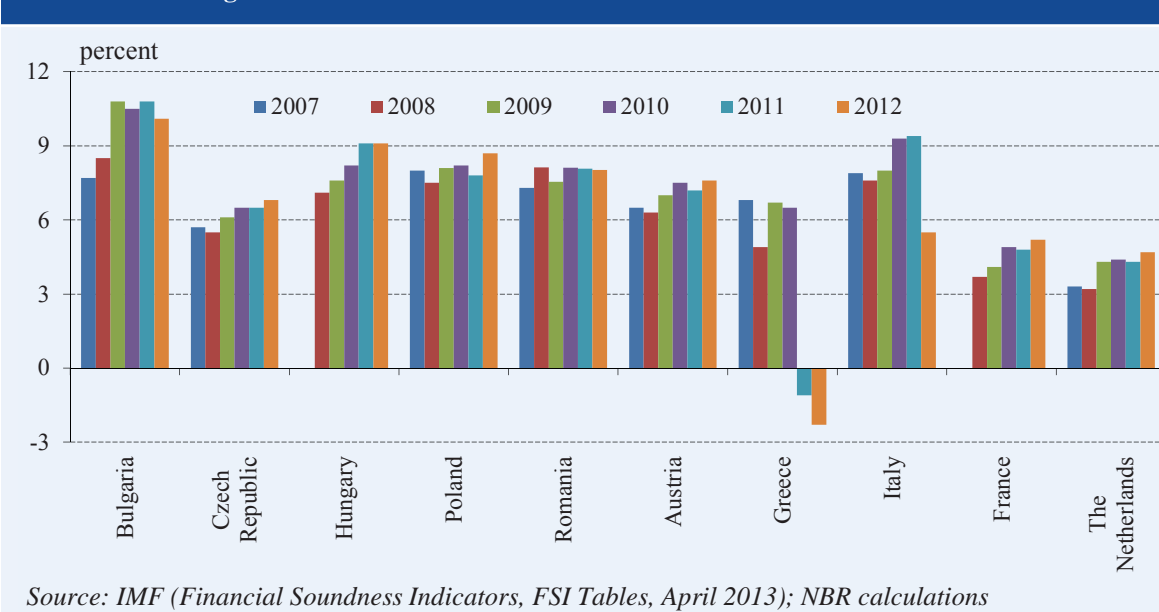
<sup>31</sup> The leverage ratio is calculated as a ratio of Tier 1 capital to total assets at average value (the accounting value of assets is used).

The Regulation will set different levels for the minimum threshold based on the business models of the banks.

The leverage ratio by bank asset size (Chart 3.27.) shows similar developments compared to the previous period, namely the indicator associated with large banks was slightly below the system average, whereas medium-sized banks further reported above-average capitalisation by about one percentage point. The indicator calculated for the group of small-sized banks saw a contraction, particularly as a result of the negative financial results recorded in 2012 and in the first half of 2013.

The leverage ratio registered by the Romanian banking system (about 8 percent during 2010-2012) was similar to that reported by other countries in the region (Chart 3.28.) and significantly higher than those reported by the home countries of the parent banks with Romanian subsidiaries. The highest leverage ratio was recorded by Austria with a level of 7.6 percent in 2012, while France, the Netherlands and Italy reported lower levels of nearly 5 percent; Greece posted a negative leverage ratio in the past two years, against the background of the macroeconomic difficulties that adversely hit the banking system.

**Chart 3.28. Leverage ratio in selected EU Member States**



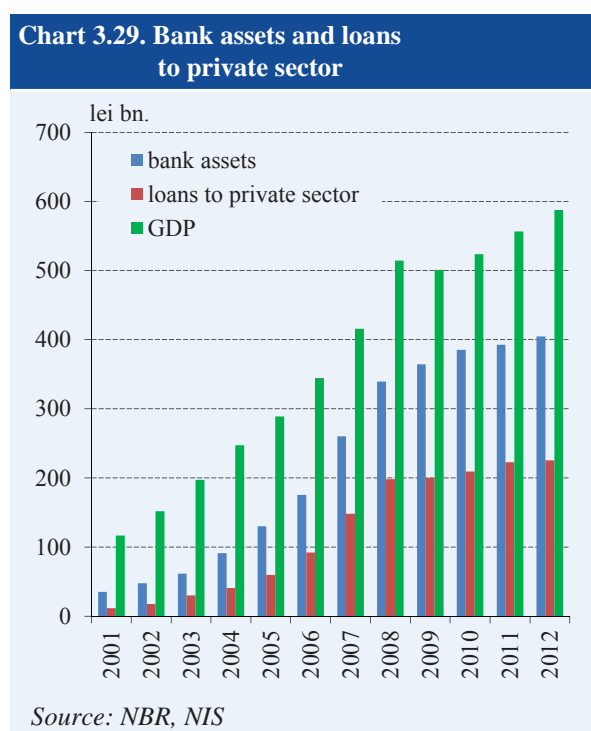
### 3.2.5. Loans and credit risk

Given the efforts to adjust their own balance sheets, in the context of the ongoing deleveraging at EU level, as well as of maintaining a prudent stance in lending activity, the Romanian banking system contained new loans to the real sector in 2013 H1. The development is similar to that recorded in the euro area and in most countries in the region, against the backdrop of still fragile macroeconomic conditions. The NBR measures to counteract the heightened risks associated with foreign currency-denominated loans to unhedged borrowers resulted in the reversal of the uptrend in foreign currency lending which had been manifest since 2007.

The quality of loan portfolios has remained a vulnerability to the Romanian banks' balance sheets owing to the pressure put on debtors' financial standing and the restraint in lending. Nevertheless,

*non-performing loans are comfortably provisioned particularly following the NBR decision to further use prudential filters in the calculation of own funds and prudential indicators.*

### 3.2.5.1. Main credit developments



The positive dynamics of lending which started in the latter half of 2011 reversed in 2012 Q4 (Chart 3.29.), the same downtrend being further manifest in the first eight months of 2013<sup>32</sup>. Against this background, in August 2013, the volume of loans granted by the Romanian banking system to the private sector was similar to that outstanding at end-2011.

In nominal terms, the annual growth rate of lending was modest, yet positive at end-2012 (1.3 percent), entering negative territory in March 2013 and reaching -2.6 percent in August 2013. The contraction in lending seen in Romania has been in line with the trends manifest in the euro area and in most countries in the region, on the back of the still challenging international macroeconomic developments, which affect both credit demand and lending standards and conditions applied by commercial banks, as well as owing to the

ongoing deleveraging, the efforts to comply with the requirements derived from the transposition of the Basel III Accord into the national legislation and the management of a large volume of non-performing loans across many EU economies.

Reflecting lending developments, the annual growth rate of bank assets (gross value)<sup>33</sup> turned negative in the current year (-2.2 percent in August 2013, nominal terms), after the relatively modest pick-up (3.1 percent) posted at end-2012, amid the still below-potential economic growth.

Behind the aforementioned developments stood the prevalence of factors having a potentially contractionary impact on lending. As regards the credit supply, the following deserve mention: (i) the increased concern of the Romanian banks to adjust their own balance sheets, in the context of the persistent deleveraging manifest at EU level (affecting the decline in loans from the parent banks) and the additional capital requirements imposed by Basel III Accord; (ii) a further prudent stance in lending, amid the ongoing deterioration of the loan portfolio quality and the high provisioning costs of credit risk; (iii) the limited volume of medium- and long-term leu-denominated financing sources. On the demand side, the factors with potentially negative impact on lending were: (i) the relatively modest economic growth and the only gradual adjustment of this trend in the period ahead, in the context of a persistent negative output gap; (ii) the persistence of risk aversion and the continued adjustment of households' and domestic companies' balance sheets, a trend that is part of a EU-wide

<sup>32</sup> At end-August 2013, loans to the private sector amounted to lei 221.9 billion, being on a decline from the same year-ago period (lei 227.9 billion) and the end of 2012 (lei 225.8 billion).

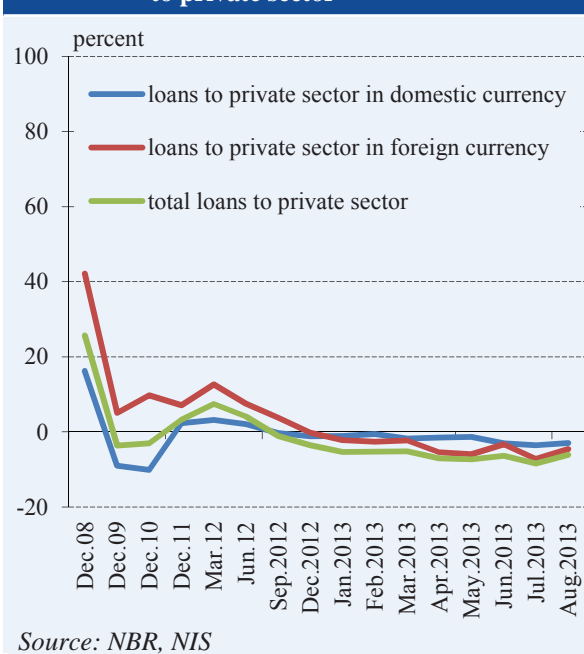
<sup>33</sup> The volume of bank assets (gross value) followed a downtrend in the period under review, decreasing from lei 405.6 billion in August 2012 to lei 404.9 billion in December 2012 and to lei 396.5 billion in August 2013. The data source is the monetary survey.



process<sup>34</sup>. Limiting the foreign currency-denominated loans to unhedged borrowers via the regulatory measures adopted by the central bank and coordinated at EU level, following the implementation of the European Systemic Risk Board recommendations<sup>35</sup>, should be mentioned as a macroprudential factor acting on both the demand and supply side.

With a view to ensuring the necessary conditions for the sustainable resumption of lending and economic growth convergence towards its potential, the central bank maintained a prudent monetary policy stance in order to anchor inflation expectations and tailored its liquidity management in the banking system<sup>36</sup> so as to consolidate the pass-through of monetary policy impulse to the financial and real sectors. Moreover, in 2013, the central bank sent renewed signals aimed at prompting a gradual downturn in the costs of loans, by resuming the progressive and prudent policy rate cut<sup>37</sup> started when the fallout from the global financial crisis first hit Romania<sup>38</sup>.

**Chart 3.30. Real annual growth rate of loans to private sector**



In the period lapsed since the release of the previous report, the dynamics of private sector loans (Chart 3.30.) re-entered negative territory. The decline accelerated gradually, from 1.1 percent in September 2012 to 8.4 percent in July 2013 (annual dynamics, real terms), slowing down by 2.3 percentage points to 6.1 percent in August 2013. The downtrend was manifest in the case of both leu- and foreign currency-denominated loans. Nevertheless, the contraction in the foreign currency component<sup>39</sup> was sharper (the rate of decline accelerated starting with January 2013 to reach -4.6 percent in August 2013). With regard to the developments in the leu-denominated credit<sup>40</sup>, the contraction was moderate until May 2013 (1.3 percent in real terms), then it stabilised at around 3 percent (2.9 percent in August 2013).

It is worth noting that the real growth rate of leu-denominated credit was strongly influenced

<sup>34</sup> European Central Bank – Annual Report 2012.

<sup>35</sup> The specified measure was implemented as a result of the higher risk associated with this category of debtors, which may induce a systemic risk across the financial system. The objectives of the Recommendation of the European Systemic Risk Board on lending in foreign currencies (ESRB/2011/1) are to: (i) limit exposures to credit and market risks, thus increasing the resilience of the financial system; (ii) control excessive foreign currency credit growth and avoid asset price bubbles; (iii) limit funding and liquidity risks, thus narrowing this contagion channel; (iv) create incentives to improve risk pricing associated with foreign currency lending, and (v) avoid circumvention of national measures through regulatory arbitrage.

<sup>36</sup> As of January 2013, the NBR Board decided to resume the adequate liquidity management in the banking system, by gradually increasing the volume of liquidity injected via weekly repo auctions (from lei 4 billion to lei 9 billion in January 2013, lei 11 billion in February 2013, before eliminating this ceiling and resorting to auctions with full allotment starting March 2013), thus influencing the downward movements of interbank rates.

<sup>37</sup> The NBR Board decided to lower the monetary policy rate to 5.0 percent per annum from 5.25 percent starting 2 July 2013, to 4.5 percent per annum from 5.0 percent starting with 6 August 2013 and to 4.25 percent starting with 1 October 2013.

<sup>38</sup> Starting with September 2008, the NBR cut the monetary policy rate by 6 percentage points (from 10.25 percent to 4.25 percent).

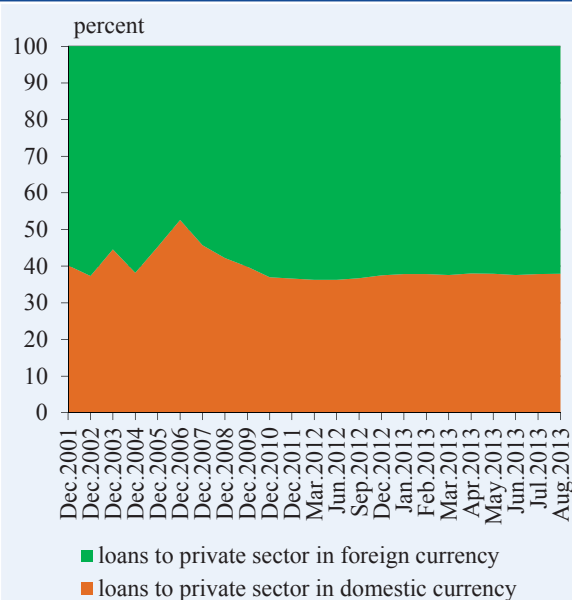
<sup>39</sup> The volume of foreign currency-denominated loans totalled lei 137.8 billion in August 2013 (versus lei 144.3 billion in August 2012 and lei 141.1 billion in December 2012).

<sup>40</sup> The volume of leu-denominated loans to the real sector amounted to lei 84.1 billion in August 2013 (versus lei 83.6 billion in August 2012 and lei 84.7 billion in December 2012).

by the inflation rate, which stayed above the upper limit of the variation band around the central target (in a range between 4.56 percent and 5.97 percent) starting with September 2012. The nominal growth rate of leu-denominated loans was in positive territory for the entire period lapsed since the release of the previous report, standing at about 4 percent during July 2012 – May 2013 and then posting more modest readings (0.6 percent in August 2013).

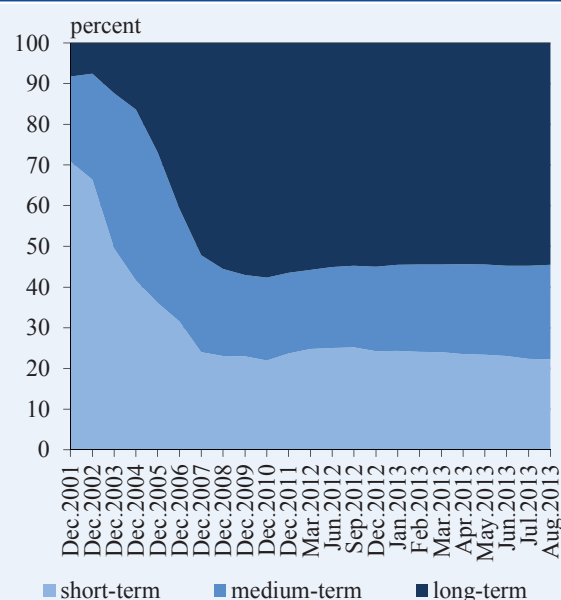
The currency breakdown of loans to the private sector showed the reversal of the uptrend in the share of foreign currency-denominated loans, which had started in 2007 (Chart 3.31.). This development was originally manifest as a slower growth (in July-November 2012, the pace of increase of foreign currency-denominated loans decelerated from 9 percent to 1.5 percent) and then continued with an initially modest contraction (-0.2 percent in December 2012), which accelerated thereafter (-4.6 percent in August 2013). Behind this stood chiefly the NBR measures<sup>41</sup> imposing on credit institutions and non-bank financial institutions a more prudent stance with regard to lending conditions<sup>42</sup>, particularly for foreign currency-denominated loans granted to unhedged borrowers<sup>43</sup> (both individuals and non-financial corporations), also including the obligation to notify customers of the impact generated by a potentially severe domestic currency depreciation on the debt service. The downward trend in foreign currency-denominated loans was also influenced by the supply-side factors which are related to the structural change in the balance sheets of banks with majority foreign capital, namely the decline in the volume of foreign currency funding. These factors led to the nearly 2 percentage point drop in the share of foreign currency loans in total credit to the private sector, from 64.0 percent in July 2012 to 62.1 percent in August 2013. The contraction in the volume of foreign currency-denominated loans was manifest across the whole maturity spectrum, yet it affected short-term loans in particular.

**Chart 3.31. Loans to private sector by currency**



Source: NBR

**Chart 3.32. Loans to private sector by maturity**



Source: NBR

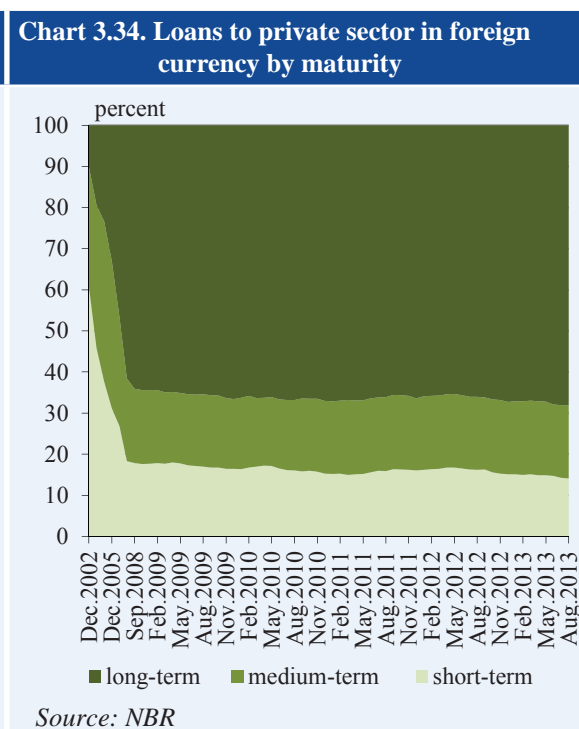
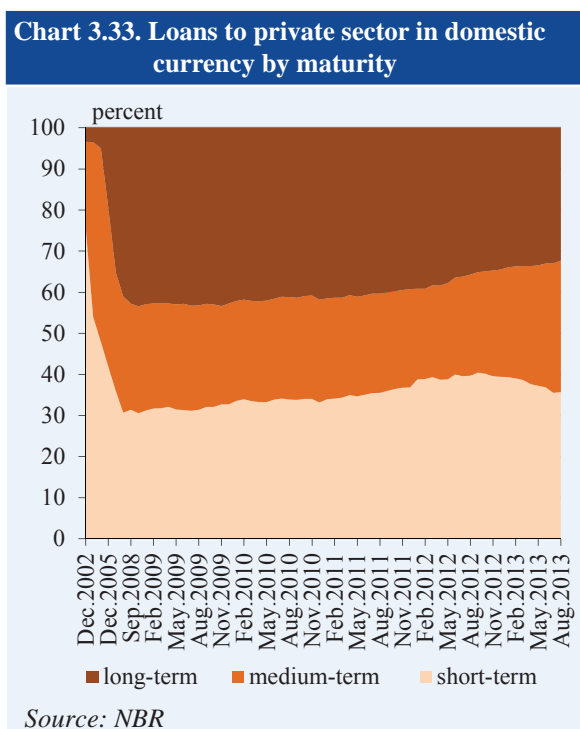
<sup>41</sup> NBR Regulation No. 17/2012 on certain lending conditions published in *Monitorul Oficial al României*, Part One, No. 855 of 18 December 2012.

<sup>42</sup> The most important provisions of the new regulations refer to: (i) providing the underlying assumptions of the calculation method for the maximum levels of overall indebtedness using standard levels of exchange rate, interest rate and income-related shocks; (ii) taking into account only the eligible income, namely the continuous income streams; (iii) setting a minimum level of 133 percent for consumer loan collateral; (iv) establishing a maturity of up to five years for consumer loans, and (v) capping real estate loans in relation to the mortgage collateral value.

<sup>43</sup> The Regulation defines the “unhedged borrower” as the individual or the non-financial entity which does not have the necessary resources denominated or indexed to the currency in which the loan is taken/granted.

The maturity breakdown of private sector loans changed in the reviewed period (Chart 3.32.), in favour of the increase in medium-term loans<sup>44</sup> (whose share stood at 23.2 percent in August 2013), up 3 percentage points compared to the figure recorded in the same year-ago period, due solely to developments in the leu-denominated component. The effect of this restructuring materialised in the 2.6 percentage point drop in the share of short-term loans<sup>45</sup> in total loans to the private sector to 22.3 percent in August 2013. Long-term loans<sup>46</sup> further held a prevailing share in banks' balance sheets (54.5 percent of total loans to the private sector at end-August 2013, a level similar to that recorded a year earlier), which continues to pose challenges in terms of maturity matching with the financing sources. In this context, banks' balance sheet structure will improve as local financial markets develop, thereby providing medium- and long-term financing sources denominated in the national currency and thus facilitating the sustainable resumption of lending.

Although the general features previously seen in the maturity breakdown of credit components by currency remained unchanged, the developments posted during August 2012 – August 2013 brought about several changes. Specifically, long-term loans consolidated their position in the foreign currency-denominated loan portfolio (Chart 3.34.), adding 2 percentage points in the reference period to reach 68 percent in August 2013, given the contraction reported by short-term loans. The leu-denominated loan portfolios further saw a balancing in terms of maturity (Chart 3.33.), on the back of the marked increase in the share of medium-term loans to 32 percent in August 2013 (up 7.5 percentage points versus August 2012) and the contractions by 4 percentage points to 35.7 percent in short-term loans and by 3.5 percentage points to 32.3 percent in long-term loans.

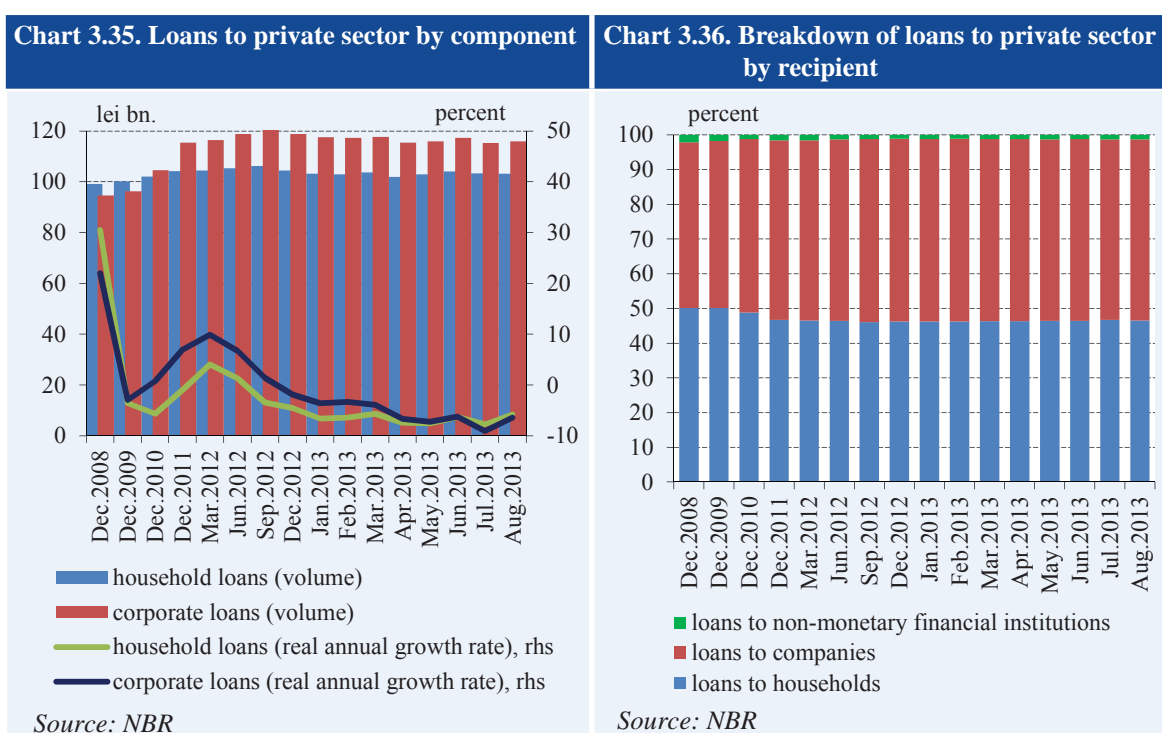


<sup>44</sup> The volume of medium-term loans amounted to lei 51.6 billion in August 2013 (versus lei 46.1 billion in August 2012 and lei 46.9 billion in December 2012).

<sup>45</sup> In the period under consideration, the volume of short-term loans contracted to lei 49.4 billion in August 2013 (as against lei 56.6 billion in August 2012 and lei 54.8 billion in December 2012).

<sup>46</sup> The fluctuations in the volume of long-term loans were less pronounced than those recorded by the other components of loans to the real sector. Thus, in August 2013, long-term loans went down to lei 120.9 billion (from lei 125.3 billion in August 2012 and lei 124.2 billion in December 2012).

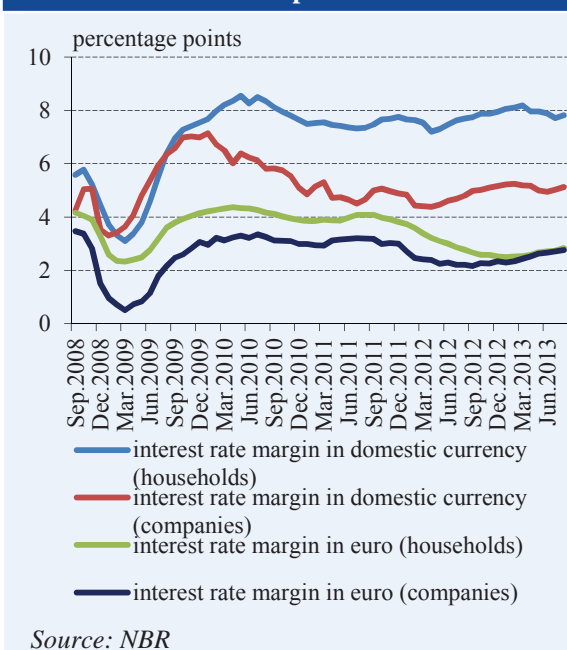
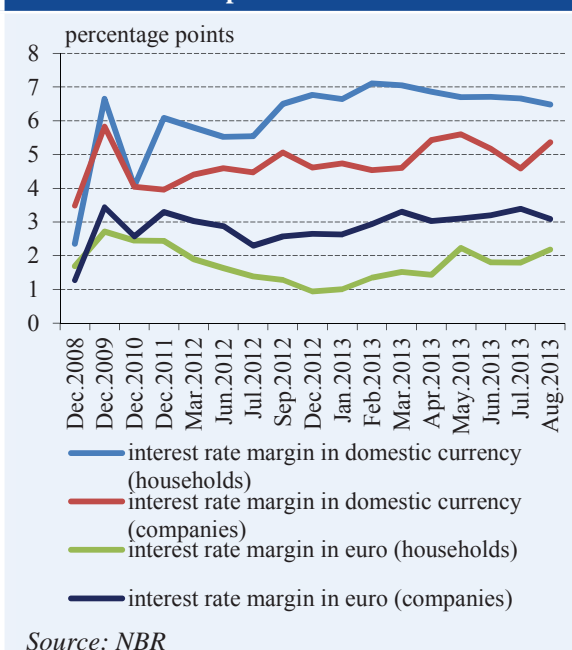
During August 2012 – August 2013, the main categories of debtors saw a reversal of the previous developments, as the volume of loans increased at a slower pace and then headed downwards. Loans to households started to fall in annual terms as of August 2012 (-0.8 percent in real terms), posting a 4.5 percent contraction at end-2012. In January-August 2013, the decline was sharper (ranging from -6 percent to -7.8 percent), with long-term loans being the most adversely hit. The annual dynamics of loans to non-financial corporations entered negative territory towards end-2012 (-1.0 percent in November, real terms). The deceleration was faster in the first eight months of 2013, particularly that of the short-term component. The magnitude of this development was high enough to become manifest in nominal terms as well for both categories of debtors<sup>47</sup>. However, the aforementioned developments did not produce significant changes in the breakdown of private sector loans by recipient (Chart 3.35.), with loans to non-financial corporations further holding a prevailing share (52.2 percent in total private sector loans in August 2013).



For June 2012 – August 2013, the analysis of average interest rates on outstanding loans and deposits (Chart 3.37.) shows the following developments:

- (i) the interest rate on leu-denominated household loans added 0.4 percentage points in the latter half of 2012 and in 2013 Q1 to a peak of 13.4 percent in March 2013, reflecting the domestic macroeconomic conditions, as well as the persistence of high risk perception relative to this segment (loans granted are generally consumer loans). During April-August 2013, interest rates were revised downwards to 12.5 percent at end-August, a level similar to that calculated for the same year-ago period, but which can be deemed high, considering that it is about 8 percentage point higher than the monetary policy rate. The average interest rates on leu-denominated loans to non-financial corporations were about 4 percentage point lower (8.8 percent in August 2013, down 1 percentage point as against the same period a year earlier), mirroring the change in the business model of banks in favour of this category of customers;

<sup>47</sup> In the reviewed period, the volume of loans to households narrowed to lei 103.2 billion in August 2013 (from lei 105.7 billion in August 2012 and lei 104.5 billion in December 2012). The volume of loans to non-financial corporations dropped to lei 115.9 billion in August 2013 (from lei 119.4 billion in August 2012 and December 2012).

**Chart 3.37. Interest rate margins on outstanding loans and deposits****Chart 3.38. Interest rate margins on new loans and deposits**

- (ii) banks gradually cut the interest rate on EUR-denominated household loans to 5.4 percent in August 2013 (0.7 percentage points below the year-ago figure). This may be attributed to lower risks associated with these loans (a large part of which are mortgage-backed), the decrease in the financing cost on the back of extremely low interbank rates in the euro area, as a result of the ECB actions to ensure comfortable liquidity levels. A similar trend was manifest for foreign currency-denominated loans to non-financial corporations (the interest rate on which dropped to 4.7 percent in August 2013, 0.2 percentage points below that applied in the same year-ago period);
- (iii) the average interest rate on leu-denominated time deposits stayed on the downtrend it embarked upon in the previous period, for both categories of customers, standing at 4.6 percent in August 2013 for households (0.8 percentage points below the interest rate paid by banks in August 2012) and at 3.7 percent for non-financial corporations (down 1.3 percentage points versus the same period a year earlier). Interest rate adjustment was circumscribed to the improvement in the domestic macroeconomic conditions. The interest rate on household deposits is further higher than that on corporate deposits, as a result of differences in the degree of stability coming from a longer average maturity in the case of the former;
- (iv) unlike the previous period when the interest rates on foreign currency-denominated deposits remained unchanged, in 2012 H1 and in the first eight months of 2013, average interest rates on EUR-denominated deposits applied by credit institutions declined markedly (down 0.8 percentage points for household deposits to 2.5 percent in August 2013 and down 0.8 percentage points for corporate deposits to 2 percent), in the context of banks' general strategy to cut financing costs and of the persistence of low interest rates on the international financial markets;
- (v) the interest rate margins calculated between leu-denominated loans and deposits increased versus June 2012 (up 0.1 percentage points for households to 7.8 percentage points in August 2013 and 0.3 percentage points for companies to 5.1 percentage points), reflecting the high costs associated with credit risk and the need to rise the operating profit. Interest rate margins between loans and

deposits in foreign currency were significantly lower (2.8 percentage points in August 2013 for both categories of customers).

In June 2012 – August 2013, average lending and deposit rates on new business to non-bank customers (Chart 3.38.), which indicate the most recent strategies pursued by banks to promote their financing and savings products, posted the following developments:

- (i) the average interest rate on new leu-denominated loans to households rose considerably (1.5 percentage points) in the latter half of 2012 and in 2013 Q1 (to a peak of 12.6 percent in March 2013), a trend which reversed in April-August 2013. In August 2013, this indicator stood at 11.1 percent, a similar level to that recorded in June 2012. However, it was 1.4 percentage point lower than the average interest rate calculated for outstanding loans (12.5 percent). In contrast, the interest rate on new corporate loans (8.7 percent in August 2013) saw a substantial decline compared with the reading posted in June 2012 (9.5 percent), being similar to that calculated based on outstanding loans;
- (ii) average interest rates on new foreign currency-denominated loans to households (4.6 percent in August 2013) was 0.5 percentage points below the June 2012 reading and 0.8 percentage points below that calculated based on the average outstanding loans, a strategy that is likely to foster demand. In addition, banks lowered the costs associated with new foreign currency-denominated loans to companies (6 percent in August 2013, down 0.6 percentage points versus June 2012);
- (iii) starting with 2013 Q2, the interest rate on new deposits in domestic currency followed a downward course compared with June 2012 (down 1 percentage point for retail customers to 4.6 percent and 1.6 percentage points for companies to 3.4 percent at end-August 2013), on the back of the improved domestic macroeconomic conditions. Given the prevailing short maturities of deposits taken, the average deposit rates on new business are similar to those calculated based on outstanding deposits;
- (iv) the downtrend in banks' financing costs was also manifest for new foreign currency-denominated deposits taken from both categories of customers (the interest rate paid by banks in August 2013 stood 1 percentage point below that reported in June 2012 to 2.5 percent for households and 1.6 percent for companies);
- (v) compared with June 2012, the interest rate margin between new loans and deposits in domestic currency rose substantially for both households (up 1 percentage point to 6.5 percentage points) and companies (up 0.8 percentage points to 5.4 percentage points), in the context of the strategy to improve the operational efficiency. As for foreign currency-denominated loans and deposits, the interest rate margin rose at a slower pace in the case of non-financial corporations (0.2 percentage points) and at a faster pace in the case of households (0.6 percentage points to 2.2 percentage points in August 2013). As a general feature, the interest rate margin related to business in foreign currency remained lower than that between loans and deposits in domestic currency. However, mention should be made that the interest rate margin between new household loans and deposits is lower than that calculated based on outstanding amounts, due mainly to the decrease in lending rates. An opposite development was recorded by new corporate loans and deposits (the related interest rate margin was higher than that calculated based on outstanding amounts, i.e. by 0.2 percentage points for leu-denominated loans and deposits and 0.3 percentage points for business in foreign currency in August 2013), owing to the anticipated costs in the event of credit risk materialising.

In the period ahead, adjustments in the interest rate margins are necessary so as to allow the sustainable resumption of lending as well as the fostering of saving. The gradual decline in lending rates, correlated with the signals transmitted by the central bank via the policy rate cut, will support demand for loans.

#### 3.2.5.2. Loan quality

The period lapsed since the release of the previous Report was further marked by pressures on the balance sheets of non-bank customers (both non-financial corporations and households), mainly affected by the economic growth below potential. The still modest economic growth pace, associated with the downtrend in lending (as a base effect), caused the further accumulation of non-performing loans, with a detrimental impact on the quality of banks' loan portfolios.

For the purpose of financial stability analyses, the NBR uses the non-performing loan ratio<sup>48</sup>, calculated based on prudential reports on loan classification, to assess the loan portfolio quality. The definition of the NPL ratio is compliant with the provisions of the IMF's *Compilation Guide on Financial Soundness Indicators*<sup>49</sup> and is the most widely used at international level. From a methodological point of view, it is worth noting that the definition used has a conservative nature as the non-performing loan ratio takes into account the gross value of loans<sup>50</sup> (the loan accounting value is not adjusted by provisions and/or the value of collateral).

The still fragile macroeconomic context caused the further increase in the volume of non-performing loans reported by credit institutions, yet at a slower pace (17.0 percent in August 2013 and 22.0 percent in December 2012 as against 28.9 percent in 2011 and 59.8 percent in 2010, annual growth rate, nominal terms). As a result, the share of non-performing loans (gross exposure) in total classified loans and interest stayed on an upward path (Chart 3.39.), reaching 18.2 percent in December 2012 and 21.0 percent in August 2013. The magnitude of developments in the non-performing loan ratio was also attributed to a base effect, given the contraction in the volume of loans<sup>51</sup>. So far, banks used the debt cancellation techniques to a limited extent in the context of non-performing loan portfolio restructuring.

---

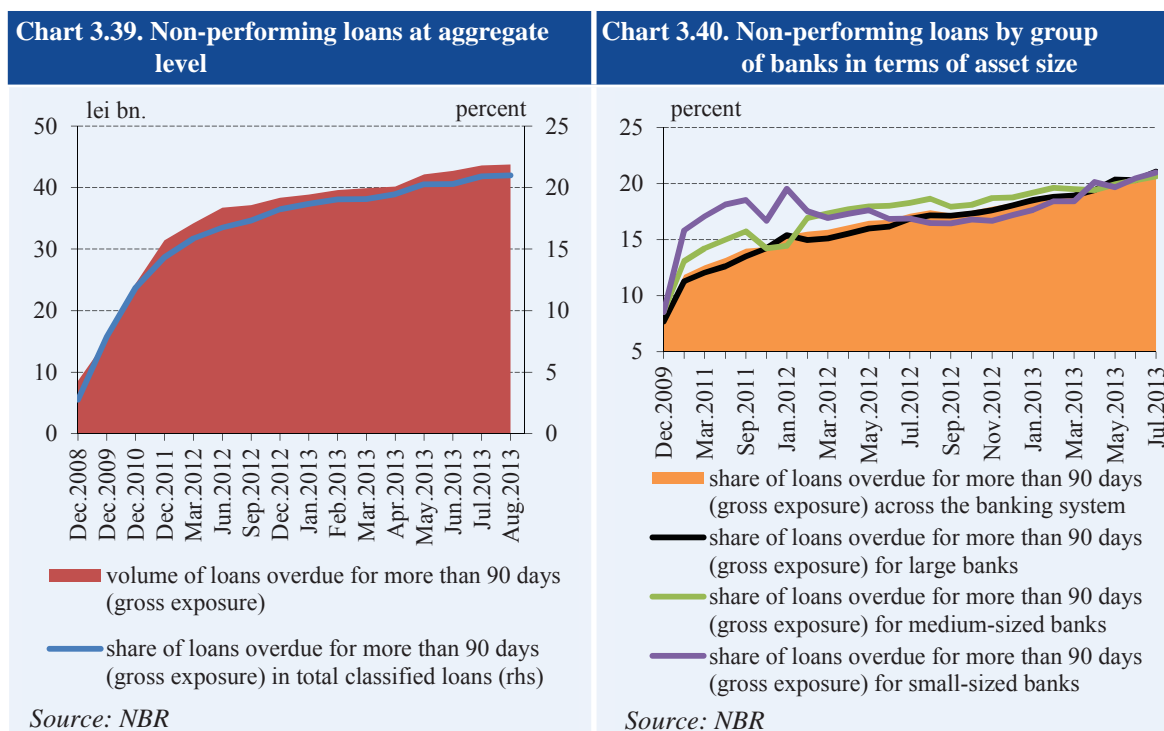
<sup>48</sup> Non-performing loan ratio is calculated as a ratio of loans (in compliance with the provisions of NBR Regulation No. 16/2012, the components of financial assets representing loans are: (1) principal, (2) related claims and (3) amortisation) overdue for more than 90 days and/or in which case legal proceedings were initiated (classified in national regulations under "Loss 2") to total classified loans in the portfolio of credit institutions for which capital requirements for credit risk are established according to the standard approach. NBR Regulation No. 16/12 December 2012 on the classification of loans and investments, as well as on the establishment and use of prudential valuation adjustments defines the initiation of legal proceedings as being at least one of the following measures taken to recover claims: (a) the court's decision to initiate the insolvency procedure, and (b) the initiation of the forced sale procedure against individuals and/or legal entities. The same applies to the enforceability of loan contracts, collateral arrangements and the final court decisions regarding loan contracts, collateral arrangements or investment contracts, as the case may be.

<sup>49</sup> The IMF's *Compilation Guide on Financial Soundness Indicators* (including the amendments approved in 2007) recommends that "non-performing loans" should be defined based on the uniform criterion of principal and interest payments overdue for more than 90 days. Compared with the previous version of the Guide, the definition does not include stricter approaches. The Guide also specifies that the recommended definition of "non-performing loans" does not entirely correspond to impaired assets, thus defined in IAS 39.

<sup>50</sup> NBR Regulation No. 16/12 December 2012 on the classification of loans and investments, as well as on the establishment and use of prudential valuation adjustments defines the gross value of the financial assets representing loans/investments as the value at which the financial asset is assessed at the initial recognition date less principal repayments, plus or minus the accumulated amortisation, using the effective interest rate method, of any difference between the initial value and the maturity value.

<sup>51</sup> According to the reports on loan classification submitted by banks, the volume of loans (gross value) totalled lei 208.5 billion at end-August 2013 (compared with lei 212.5 billion in August 2012 and lei 210.4 billion at end-2012). The amounts include (1) principal, (2) related claims and (3) amortisation.

The analysis at the level of bank group in terms of asset holdings (Chart 3.40.) shows a tendency to homogenisation of the asset portfolio quality in 2013 Q2, mainly as a result of the faster rise in the volume of non-performing loans in the large banks' balance sheets.



These developments were similar to those seen on other European banking markets (Chart 3.41.), which remained under the influence of a challenging international macroeconomic context. The worsening of the loan portfolio quality affected mostly the countries in the region (e.g. Slovenia, Hungary, Bulgaria; Greece reported the highest non-performing loan ratio, i.e. 22.5 percent in 2012, up 6.5 percentage points versus 2011) and, to a smaller extent, Western Europe countries<sup>52</sup>. This is

<sup>52</sup> Considering that there is no single definition of non-performing loans at European or international levels, the differences between the accounting standards and prudential regulations enforced at national level may influence non-performing loan ratio and its comparability between various states (for instance, only impaired assets and not overdue loans are taken into account; only the exposures of domestic banks are considered and the non-performing loans of foreign branches are not added; exposure net of provisions instead of gross exposure is employed; non-performing criteria other than that of maturity “overdue for more than 90 days” are used; the indicator is not calculated for the banking system as a whole, but only for a relevant sample of banks; the indicator is calculated based on exposures to residents alone; the indicator scope is different, as it may include loans to government, other credit institutions or to non-residents, together with private sector loans; non-performing loan ratio may comprise restructured and refinanced loans; some countries use the criterion of maturity overdue for more than 180 days, while others consider a loan overdue for more than 30 days as non-performing).

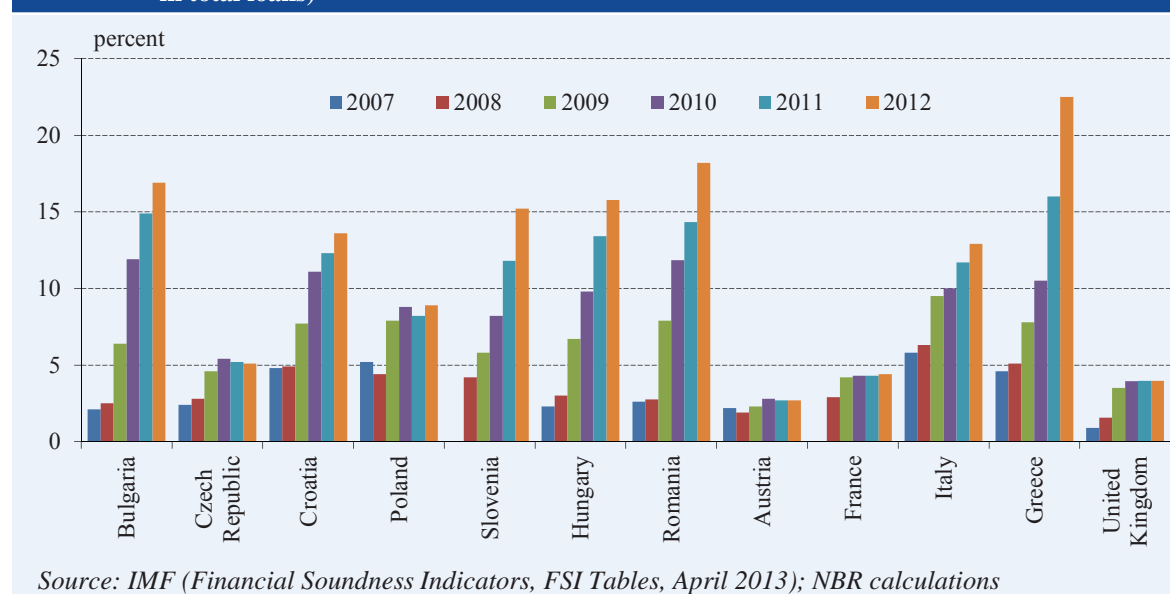
The European Banking Authority is about to finalise the Implementing Technical Standards for reporting non-performing exposures, which are to enter into force in the period ahead as they are to be added to the FINREP reporting framework. EBA's definition of non-performing exposures is based on (a) material exposures overdue for more than 90 days or (b) exposures incurring the risk of not being paid in full without realisation of collateral, regardless of the existence of any past-due amount or of the number of days past due, as well as all default exposures (according to Art. 178 of EU Regulation No. 575/2013) or impaired exposures (in line with IFRS). The main methodological notes on the above-mentioned definition refer to: (i) including all debt instruments (loans and advances, debt securities) irrespective of their classification for accounting or prudential purposes, as well as the off-balance sheet exposures; (ii) classifying as non-performing all on- and off-balance sheet exposures to a certain debtor with an exposure overdue for more than 90 days accounting for at least 20 percent of its total exposures or when the debtor's overdue amounts represent at least 5 percent of the bank's total exposure to the debtor; (iii) considering exposures as being no longer non-performing when the following conditions are fulfilled simultaneously: (1) the debtor's situation has improved so that the debtor is likely to pay all the amounts due in line with the initial maturities or the renegotiated conditions and (2) the debtor no longer has overdue amounts.



the result of an unsustainable increase in the loans granted during 2003-2008 (a period witnessing the easing of lending standards) and the challenges to resuming economic growth at global level once the fallout from the global financial crisis emerged, as well as of legal, judicial, fiscal and regulatory obstacles hindering the rapid resolution of non-performing loans<sup>53</sup>.

The analyses on the relative influence of determinants<sup>54</sup> indicated that macroeconomic factors (economic growth, domestic currency depreciation, inflation, unemployment, risk aversion) had a greater impact than those specific to banking activity (the capital-to-asset ratio and ROE are slightly negatively correlated to non-performing loan ratio, whereas excessive lending, determined based on the loan-to-asset ratio and the pace of credit growth, showed a positive correlation). Moreover, research shows a high autocorrelation coefficient in the case of non-performing loans, considering that a shock in the volume of non-performing loans will most likely have a longer-term effect on the banking system. Thus, the worsening quality of bank asset portfolios causes the contraction of loan supply, with an implicit negative impact on the resumption of economic growth.

**Chart 3.41. Loans portfolio quality in selected EU countries (share of non-performing loans in total loans)**

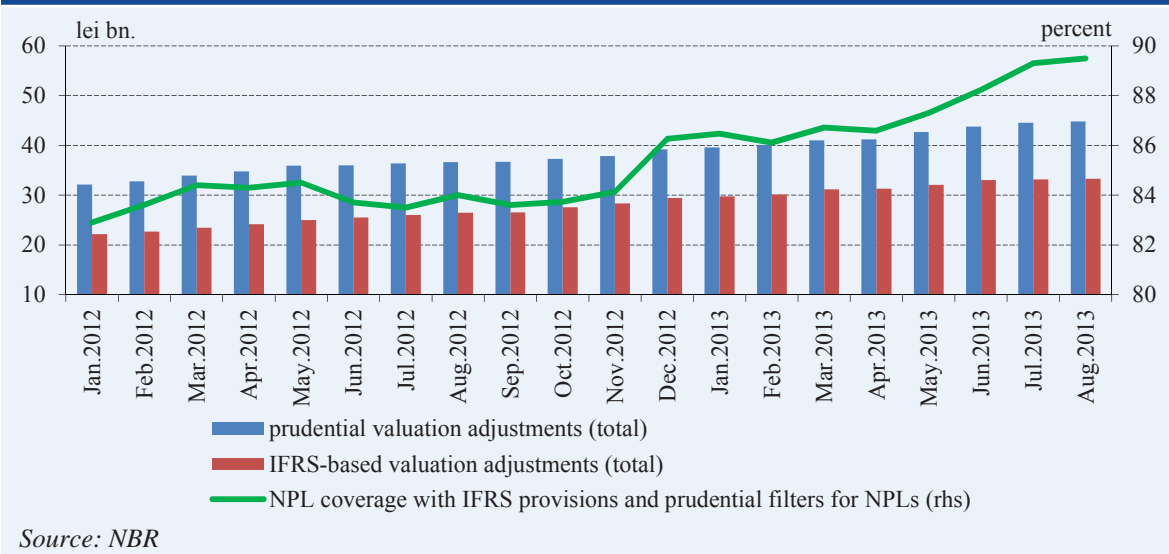


The risk attached to the loan portfolios in the balance sheets of banks in Romania is mitigated by the comfortable provisioning (Chart 3.42.), which covers expected losses; another instrument used by the NBR in order to ensure banks' capacity to absorb credit risk losses is capital adequacy, namely maintaining comfortable solvency and Tier 1 capital adequacy ratios, including by using prudential filters and setting buffers to be used for covering unexpected losses.

<sup>53</sup> European Banking Coordination "Vienna Initiative" – "Working Group on NPLs in Central, Eastern and Southeastern Europe" (March 2012).

<sup>54</sup> IMF – "Non-Performing Loans in CESEE: Determinants and Impact on Macroeconomic Performance" (March 2013).

**Chart 3.42. Prudential valuation adjustments and IFRS-based valuation adjustments calculated at the banking system level; coverage ratio of non-performing loans with IFRS provisions and prudential filters for NPLs**



The volume of prudential valuation adjustments<sup>55</sup> calculated for the banking system stayed on an uptrend in the period under consideration (outstanding prudential adjustments<sup>56</sup> grew by 22.4 percent in August 2013 and by 27.5 percent in December 2012, year on year, nominal terms). Adjustments for impairment calculated in line with IFRS accounting standards<sup>57</sup> posted a faster rate of increase (25.7 percent in August 2013 and 32.9 percent in 2012, year on year, nominal terms). Only the adjustments for impairment calculated in line with IFRS accounting standards are registered in the balance sheet, but the positive difference between total prudential valuation adjustments and total adjustments for impairment is used as a prudential filter to determine own funds and prudential indicators. The differences between prudential valuation adjustments and adjustments for impairment (IFRS provisions) are mainly determined by the methodology for the recognition of collateral for non-performing loans<sup>58</sup>.

<sup>55</sup> Prudential valuation adjustments are calculated based on prudential regulations enforced at national level, namely the regulation on classification of loans and investments. NBR Regulation No. 16/12 December 2012 on the classification of loans and investments, as well as on the establishment and use of prudential valuation adjustments sets the differentiated prudential adjustment coefficients, which apply to the following loan categories: (i) loans granted to hedged borrowers are as follows: “standard” – 0, “watch” – 0.05, “substandard” – 0.2, “doubtful” – 0.5; “loss” – 1; (ii) loans granted to unhedged borrowers, natural entities, in which case coefficients are higher than those mentioned above, namely “standard” – 0.07, “watch” – 0.08, “substandard” – 0.23, “doubtful” – 0.53, “loss” – 1.

<sup>56</sup> The volume of prudential valuation adjustments totalled lei 44.8 billion in August 2013, up compared with lei 39.2 billion in December 2012 and lei 36.6 billion in August 2012.

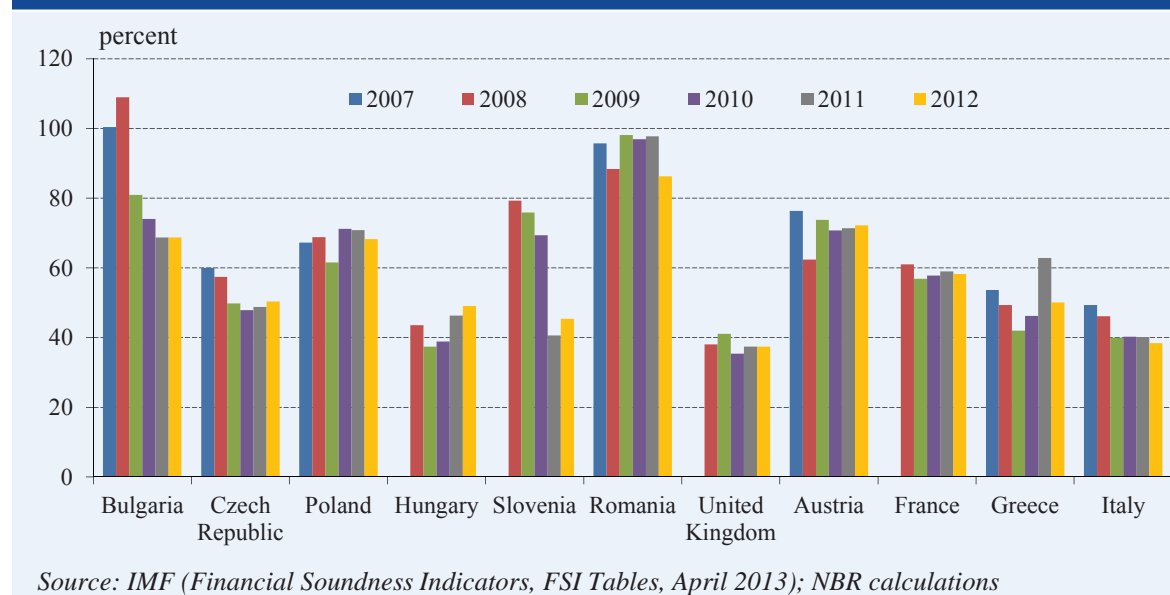
<sup>57</sup> The volume of adjustments for impairment (IFRS provisions) at the banking system level rose from lei 22.1 billion in January 2012 to lei 26.5 billion in August 2012, lei 29.4 billion in December 2012 and lei 33.3 billion in August 2013 respectively.

<sup>58</sup> Pursuant to NBR Regulation No. 16/12 December 2012 on the classification of loans and investments, as well as on the establishment and use of prudential valuation adjustments, the guarantees for exposures representing the principal of loans/investments classified under “loss”, in which case debt service exceeds 90 days and/or legal proceedings were initiated, are adjusted by coefficients that should not exceed 0.25. Furthermore, the guarantees for exposures representing related claims and amortisation of loans/investments classified under “loss” are not taken into account, the coefficient applied to the guarantee amounts being equal to zero. The prudential approach envisages the depletion of collateral in the case of illiquid markets. On the other hand, in line with IFRS accounting standards, the cash flows relating to guarantees are taken into consideration when determining the adjustments for impairment; according to IAS 39.AG84, “the calculation of the present value of the estimated future cash flows of a collateralised financial asset reflects the cash flows that may result from foreclosure less costs for obtaining and selling the collateral, whether or not foreclosure is probable”.

For financial stability analysis purposes, starting with 2012, the central bank uses the coverage ratio of non-performing loans with IFRS provisions and prudential filters for NPLs<sup>59</sup> in order to assess provisioning adequacy. Including prudential filters in the calculation of the indicator, along with the IFRS provisions registered in the balance sheet, is justified by the fact that the prudential filter represents an amount deducted from own funds with a view to increasing their capacity of absorbing credit risk losses. The central bank decided to further use in 2013 the prudential filters introduced in 2012 along with the implementation of IFRS and to gradually phase them out during 2014-2018 (i.e. to gradually lower by 20 percent per annum the share of deductible items in own funds for the purpose of determining prudential indicators), in the context of implementing Basel III requirements via the CRD IV/CRR package<sup>60</sup>. From a methodological point of view, the indicator is calculated based on the gross exposure of non-performing loans (which ignores the mitigating effect of collateral related to non-performing loans on the credit risk), reflecting a prudential approach.

The coverage ratio of non-performing loans with IFRS provisions and prudential filters for NPLs may be assessed as comfortable throughout the period under review (Chart 3.42.), standing at 86.3 percent in December 2012 and at 89.5 percent in August 2013. The same conclusion is drawn from the analysis of the indicator determined only on an accounting basis, the coverage ratio of non-performing loans with IFRS provisions following an upward path (from 61 percent in December 2012 to 63.3 percent in August 2013).

**Chart 3.43. Coverage ratio of non-performing loans in selected EU Member States**



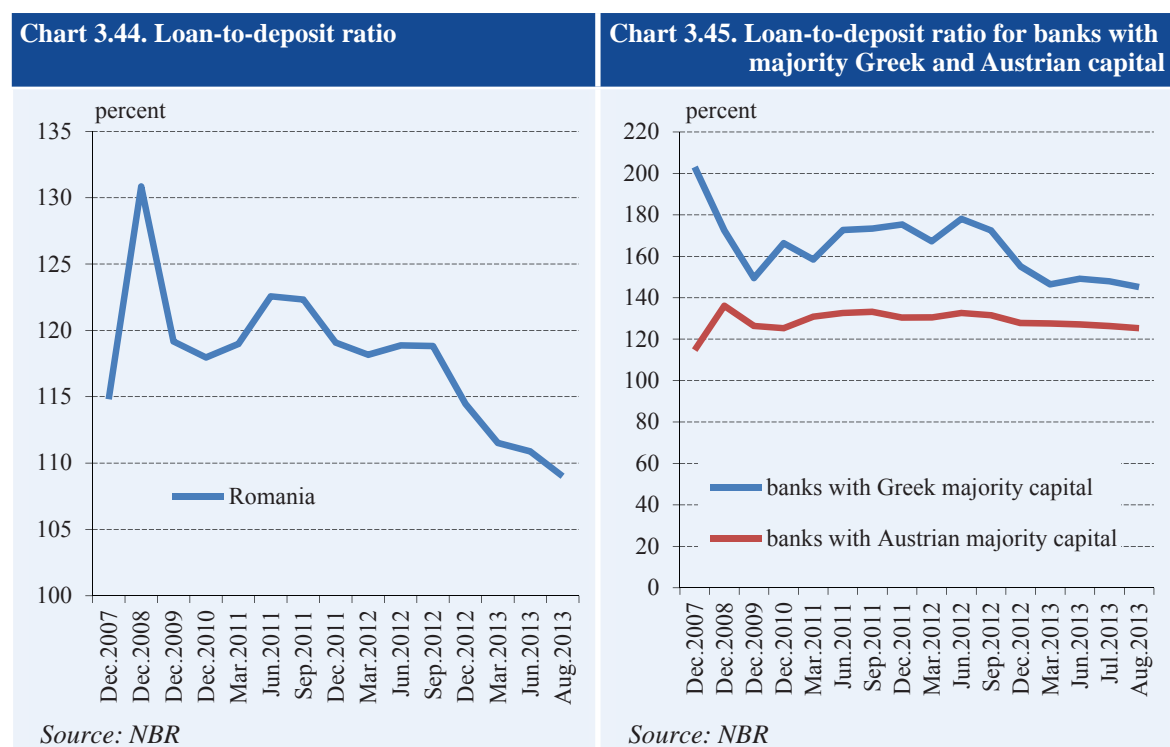
<sup>59</sup> The coverage ratio of non-performing loans with IFRS provisions and prudential filters for NPLs is calculated by taking into account the IFRS provisions and the prudential filters corresponding solely to non-performing loans as the numerator and the non-performing loans, namely the loans and interest overdue for more than 90 days and/or for which legal proceedings were opened ("Loss 2") as denominator.

<sup>60</sup> Directive 2013/36/EU of the European Parliament and of the Council of 26 June 2013 on access to the activity of credit institutions and the prudential supervision of credit institutions and investment firms and Regulation No. 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms.

The provisioning level calculated for the Romanian banking system<sup>61</sup> is the highest among the countries in the region and the home countries of shareholders of credit institutions, Romanian legal entities, which are foreign bank subsidiaries (Chart 3.43.). However, mention should be made that there is no EU harmonised definition of this indicator<sup>62</sup>.

### 3.2.6. Liquidity risk

The liquidity position of banks remained at a comfortable level. Systemic risk has further been small, as bilateral interbank exposures in Romania have been low in relation to own funds and liquid assets of creditor banks. The adjustment in funding from parent banks generally unfolded in an orderly manner. However, starting September 2012, it evolved at a significantly faster pace than that reported since the drafting of the previous Report. The adjustment of credit institutions' balance sheet assets on the back of limited granting of new loans (EUR-denominated loans in particular) contributed to the alleviation of the currency mismatch between loans and deposits. The NBR ensured the adequate liquidity management in the banking system by supplementing the regulatory framework and providing liquidity via weekly repo operations, so that the liquidity position of the Romanian banking system improved during the current year.



The imbalance between credit to the private sector and funding from local sources narrowed starting with 2012 H2, on the back of the lower stock of loans and a slight increase in the volume of deposits taken. Loan-to-deposit ratio improved gradually in the period under consideration (Chart 3.44.),

<sup>61</sup> For Romania, the indicator calculated as a ratio of total provisions to the gross exposure of loans overdue for more than 90 days and/or for which legal proceedings were opened (considering that prudential provisions were registered in the balance sheet up to 31 December 2011) was used for the 2007-2011 period. In 2012, the coverage ratio of non-performing loans with IFRS provisions and prudential filters for NPLs, which assesses provisioning adequacy in the context of implementing the IFRS accounting standards and using prudential filters in the calculation of own funds, was used for Romania.

<sup>62</sup> The methodology for this indicator may differ across countries, as general provisions may be taken into account, together with specific provisions for credit losses; provisions for related claims may be included or not; in the context of the IFRS standards, collective provisions along with individual provisions may be considered.

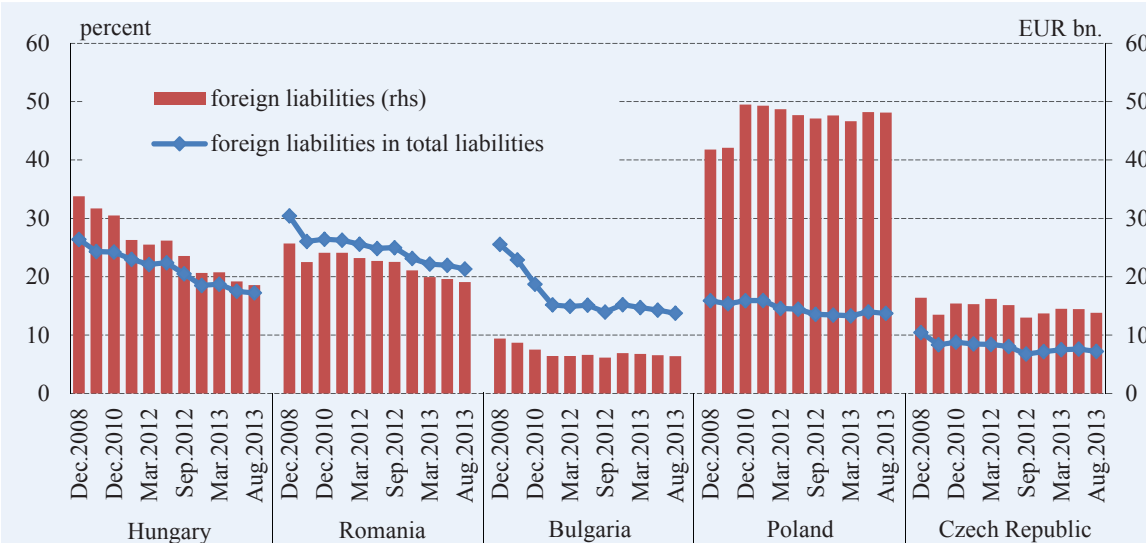
reaching an all-time low since the financial crisis onset (109 percent in August 2013 versus 119 percent in June 2012) in line with regional developments (Chart 4.10.).

Banks with majority Greek capital<sup>63</sup> witnessed a significant adjustment of the loan-to-deposit ratio (Chart 3.45.), as a result of changes reported by the banks in this category (in June 2011, Marfin Bank became a bank with Cypriot capital, while in June 2012, Emporiki Bank became a French-owned bank) and the negative lending developments, amid the efforts to strengthen the local deposit base.

Corporate and household deposits remained the main funding source for banks (51.3 percent of total liabilities at end-August 2013), up 4 percentage points versus the same year-ago period, against the background of the ongoing uptrend in domestic saving.

At end-August 2013, the share of external financing in total liabilities of the banking system stood at 21.3 percent, down 3.5 percentage points against June 2012. However, this value further exceeded the average for the countries in the region (Chart 3.46.); external financing went down about EUR 3.4 billion in 2013 H1 versus the same period a year earlier. The faster adjustment dynamics,, although inducing declines in the external debt of the private sector, are likely to generate the risk of constraints on the real economy, particularly that the cut in intra-group credit lines gained speed during a period of low risk aversion to emerging market exposures (January-May 2013).

**Chart 3.46. Foreign liabilities (international comparison)**

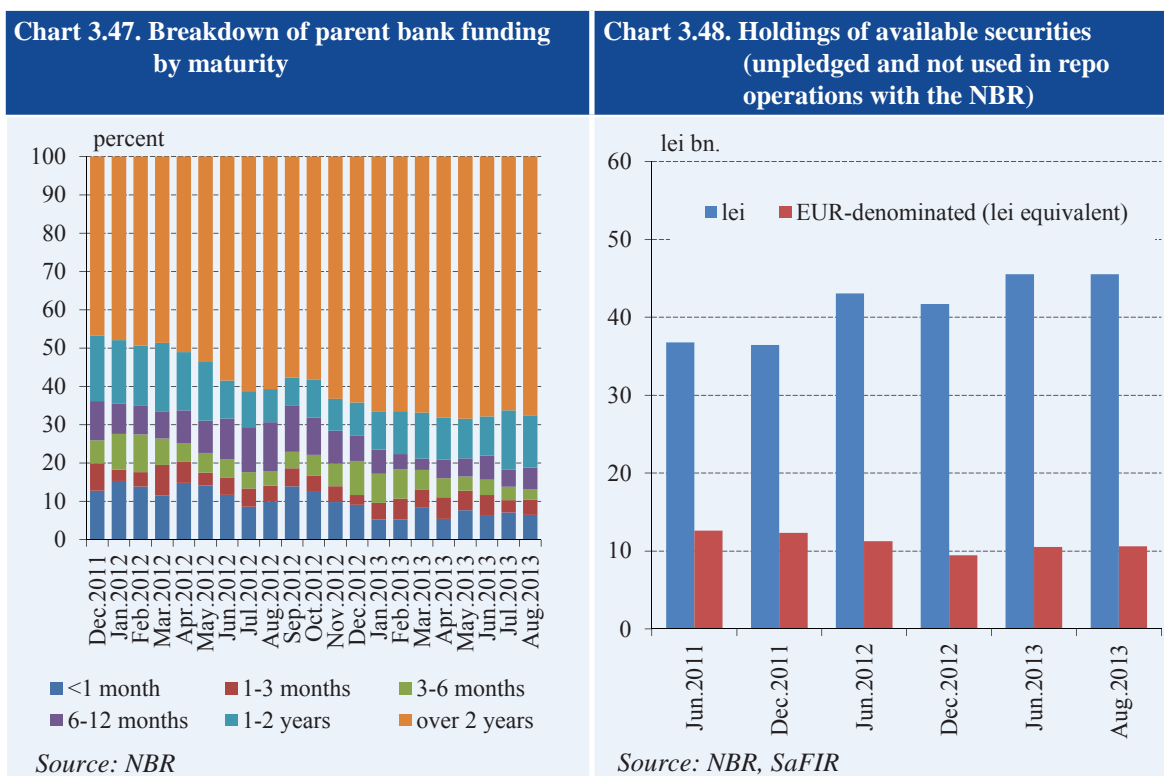


Source: ECB

The large share of medium- and long-term external financing has a mitigating impact on liquidity risks. The orderly, yet considerable reduction in external financing led to a gradual rise in the average maturity of parent bank funding, exceeding 23 months in August 2013 (Chart 3.47.). In terms of currency breakdown, the financing in euro held a prevailing share of 74.8 percent of total parent bank funding in August 2013, the leu-denominated component accounting for 15.2 percent, while the financing in US dollars and other currencies continued to be modest.

<sup>63</sup> At end-August 2013, the group of banks with majority Greek capital comprised Alpha Bank, ATE Bank, Banca Românească, Bancpost and Piraeus Bank.

The share of capital and other reserves in total liabilities continued its upward path, reaching 19.66 percent at end-August 2013, up 2.8 percentage points since the release of the previous Financial Stability Report (i.e. 16.9 percent in June 2012). The share of domestic interbank deposits in total liabilities increased marginally, to 1.72 percent at end-August 2013, the contamination risk in the domestic banking system via this channel being further contained.



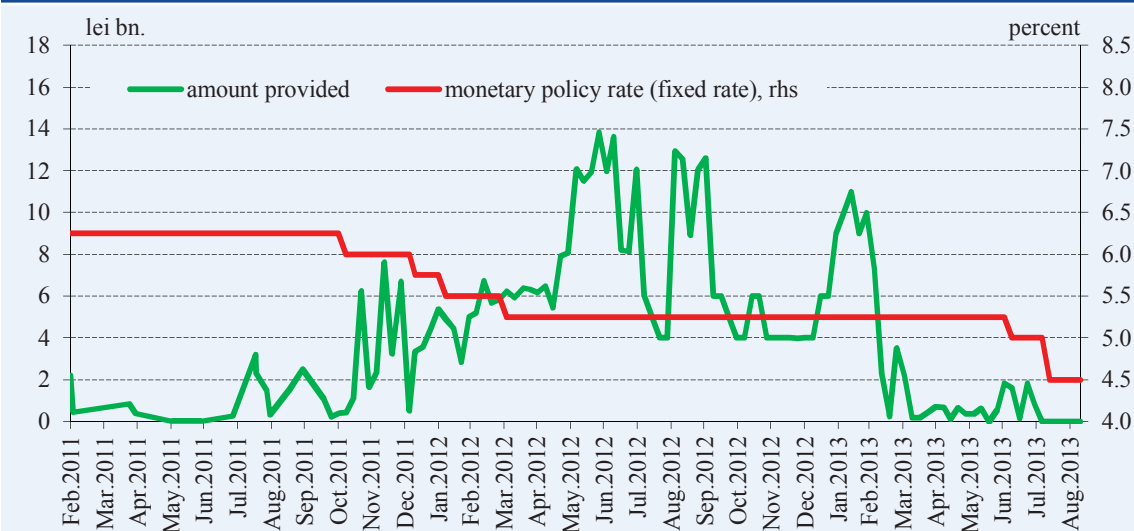
Banks' holdings of unpledged government securities not used in repo operations with the NBR continued to rise in 2012 and in 2013 H1, helping improve the liquidity position of the banking sector (Chart 3.48). Raising short-term liquidity by pledging government securities in interbank borrowing is low, given that only 0.7 percent of holdings of available securities<sup>64</sup> were pledged at end-August 2013.

The NBR provides liquidity to credit institutions via repo operations conducted through fixed-rate auctions (the monetary policy rate – 4.25 percent per annum in October 2013). Liquidity-providing repo operations are held on a weekly basis and the funds offered to the bidders have one-week maturity. The funds raised by banks via repo operations increased markedly in 2012 H1, under the contractionary impact of the autonomous liquidity factors. In the latter half of 2012, the external environment was volatile and fraught with uncertainties surrounding the sustainable resolution of the euro area sovereign debt crisis and the performance of the banking systems in certain EU countries, against the backdrop of worsening outlook for worldwide economic growth. In the context of high volatility of investor risk aversion, with a negative impact on net capital flows, the NBR shifted from an adequate to a firm liquidity management. In order to contain the excessive exchange rate volatility, the central bank pursued, during 2012 H2, a policy to cap the amounts provided via repo operations. The capping was initially established for August 2012, being subsequently resumed in October 2012.

<sup>64</sup> The updated value of leu-denominated government securities held by participants in the SaFIR system on 30 August 2013.

At the end of 2013 Q1, due to the lower risk aversion on the external markets and the improved investor perception of sovereign risk, the NBR reverted to an adequate liquidity management, by gradually removing the cap on the amounts provided through fixed-rate auctions, yet the decline in banks' liquidity needs caused the contraction in the amounts raised via repo operations (Chart 3.49.).

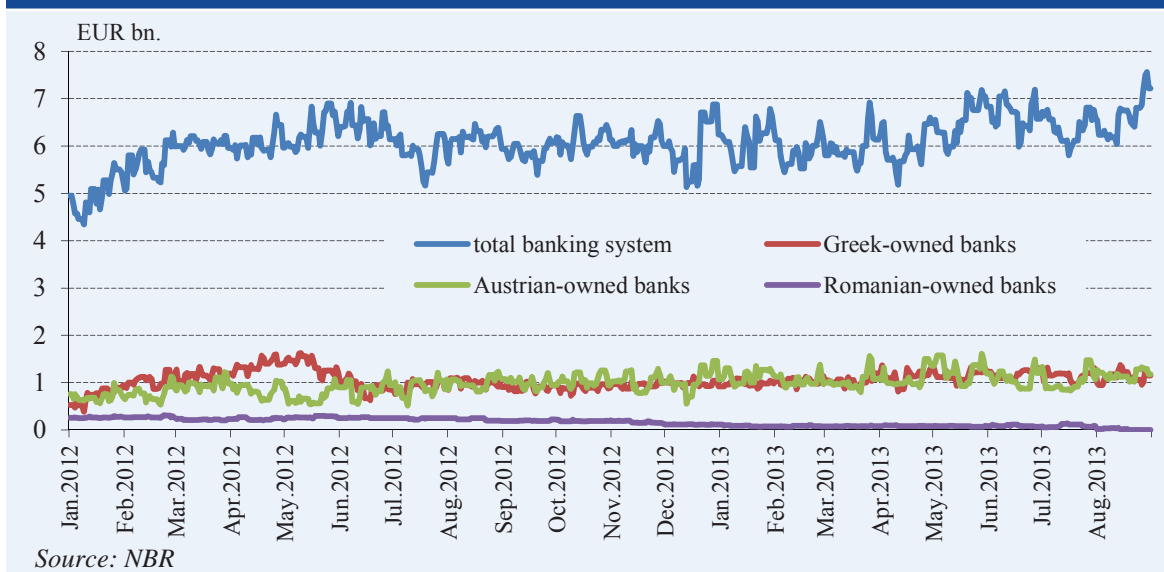
**Chart 3.49. Liquidity provided through repo operations**



Source: NBR

FX swaps with non-resident credit institutions gained increasing importance, turning into an instrument for the management of the currency mismatch between assets and liabilities. Thus, these operations witnessed a rise in 2012 and in 2013 H1, the daily net volume of the funds raised totalling about EUR 7 billion. The system-wide average maturity of the funds raised via FX swaps with non-resident credit institutions fluctuates around 90 days. At end-June 2013, the monthly average traded volumes via swaps with non-resident credit institutions made up nearly 38 percent of total funds taken by banks from foreign financial institutions (Chart 3.50.). Banks resort to these types of operations in particular to mitigate the currency mismatch between assets and liabilities, the main banks conducting activity on the FX swap market being those with a high loan-to-deposit ratio for EUR-denominated funds. The upside of these instruments is the low cost in cases of high liquidity. The downside is the short maturity of these operations, which implies the need of frequent refinancing and the dependence on this market's liquidity, whose volatility is affected by numerous exogenous factors.

EUR-denominated funding of the Romanian non-bank sector via FX swaps rose considerably in 2012 and in 2013 H1, the daily net balance of euro funding to this sector via FX swaps standing close to EUR 300 million in 2013 Q2. Despite the high growth rate, this type of funding accounts for less than 1 percent of EUR-denominated credit to the non-bank sector. Only a limited number of banks conduct FX swaps with the non-bank sector and they generally cover their short/long positions by taking long/short positions with non-resident credit institutions, parent banks included.

**Chart 3.50. Daily net balance of EUR-denominated funds from FX swaps with non-resident credit institutions**

Liquidity stress tests highlighted a good capacity of absorbing the shocks generated by the partial withdrawal of some financing sources. In the context of a sharper decrease in external financing, mainly as a result of lower intra-group exposure, the currency mismatch between assets and liabilities could raise some liquidity issues for the foreign currency-denominated component, particularly in the assumption that credit institutions' access to the FX swap market would be contained.

Liquidity risk management is a key factor of credit institutions' soundness, mainly in the context of high financial market volatility. The central bank attaches particular importance to liquidity management system-wide, including via adequately tailoring the regulatory framework<sup>65</sup>. In 2012 and in 2013 H1, the NBR ensured the adequate liquidity management in the banking system, except during November 2012 – January 2013, when the central bank pursued a firm liquidity management. Monetary policy rate remained unchanged at 5.25 percent for 14 months during April 2012 – June 2013. In July, August and September 2013, the NBR successively cut the policy rate by 25, 50 and 25 basis points to the current level of 4.25 percent, thus sending a positive signal to the economic environment in order to prompt a gradual reduction in the costs of lei-denominated loans and foster lending. Moreover, in May 2013, the NBR Board decided to narrow the corridor around the policy rate defined by the interest rates on standing facilities to  $\pm 3$  percentage points from  $\pm 4$  percentage points, in order to lower the interest rate volatility on money and banking markets.

<sup>65</sup> On 13 November 2012, the following pieces of legislation entered into force:

- NBR Regulation No. 14/12 November 2012 on amending NBR Regulation No. 1/2000 on the open market operations performed by the National Bank of Romania and the standing facilities granted to eligible participants;
- NBR Order No. 12 of 12 November 2012 amending NBR Order No. 8/2006 on the working procedures for the open market operations performed by the National Bank of Romania and the standing facilities granted to eligible participants.

The changes brought about by the new regulations envisaged the elimination of restrictions on the number of options included in the bids put forward by the eligible participants for the fixed- and variable-rate auctions organised by the NBR for monetary policy operations, except fixed-rate auctions for FX swaps and deposit-taking, in which case bids shall contain a single option.



### 3.2.7. Market risk

*At end-June 2013, the interest rate risk was slightly lower year on year. The adverse scenario of a permanent shock, consisting in a 200 basis point increase in interest rates implying a parallel shift of the yield curve, would have a negative impact of around 7.4 percent on own funds, down 0.6 percentage points compared with the impact assessed based on the same scenario in June 2012. Currency risk has remained very low.*

#### Interest rate risk

Unlike the previous periods, in 2012 H2 and early 2013, the share of government securities holdings in the balance sheet no longer expanded, stabilising at around 21 percent. The attractiveness of these low credit risk items notwithstanding, amid the expected interest rate adjustments, the development may be ascribable to the much slower pace of increase in the share of public debt in GDP, accompanied by foreign investors' keener interest in government securities, as shown by the larger volume of government securities held by non-residents (almost 28 percent in May 2013 versus 14 percent in December 2012, an increase attributable to Romania's inclusion in the JP Morgan and Barclays Capital emerging market government bond indices in March 2013 and April 2013 respectively).

Assuming a potential permanent shock implying a 200 basis point parallel shift of the yield curve<sup>66</sup>, in the context of higher interest rates, the losses generated by the maturity mismatch of interest rate risk-sensitive assets and liabilities would account for around 7.4 percent of credit institutions' own funds. The impact is lower than in June 2012, when it was estimated at roughly 8 percent, especially following the drop in fixed interest-bearing assets of credit institutions and, implicitly, of the average maturity of financial assets. The distribution of these losses is heterogeneous among credit institutions, the impact ranging from a 35 percent loss to a 12 percent gain of own funds, particularly as a result of the differences in the structure of assets (credit institutions show a lower sensitivity when loans hold a large share in their total financial assets). Although in the case of some credit institutions the funding costs are barely impacted by the short-term interest rate developments (stable funding sources in terms of repricing and, implicitly, with high residual maturity), most credit institutions attract funding sources whose costs are based on short-term developments. Thus, overall, credit institutions would incur losses in case of an unexpected increase in interest rates.

The sensitivity of fixed interest-bearing assets, other than loans, estimated based on the change in the market value of government securities following the unexpected and persistent 200 basis point rise in interest rates would induce losses tantamount to roughly 3.4 percent of banks' own funds. The assessment of the impact did not take into account the government securities held to maturity (around 30 percent of total holdings of government securities), following their specific accounting treatment<sup>67</sup>, which does not require their mark-to-market and does not affect the profit and loss account or the capital adjustment based on the unrealised loss.

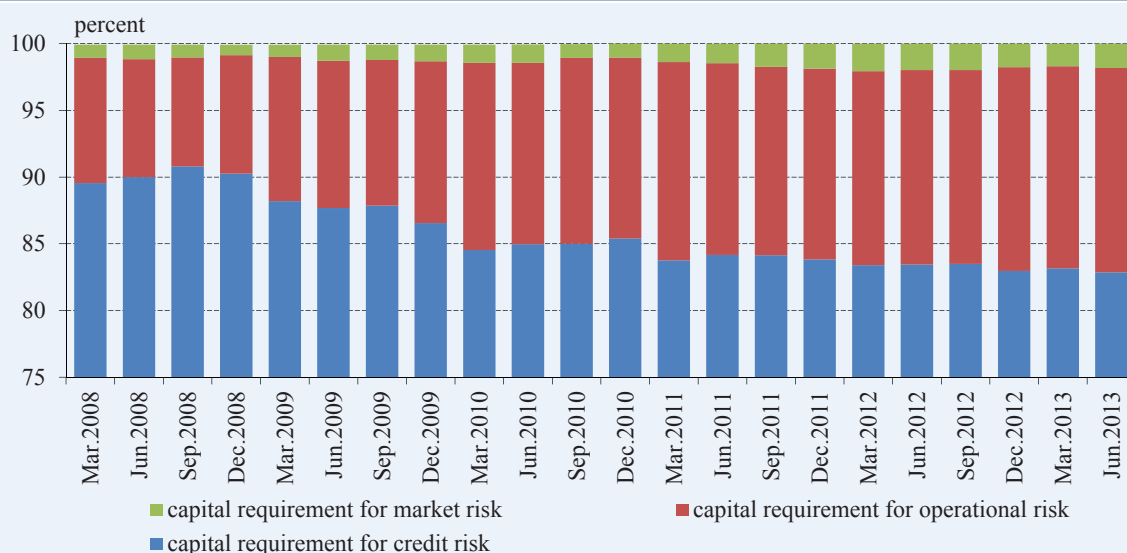
The share of the capital requirement for market risk in total capital requirements for risks witnessed an almost continuous increase March 2008 through March 2013, but it fell somewhat in June 2013, in line with the slight decline in interest rate risk. Nevertheless, the level of this share (roughly 2 percent)

<sup>66</sup> The yield curve was estimated based on the transactions in Treasury certificates and government bonds on the secondary market.

<sup>67</sup> The government securities held to maturity generally have maturities notably higher than those specific to the securities in the other categories and, therefore, interest rates are unlikely to stay high throughout their maturity, given the fading of inflationary shocks in the long run.

is marginal compared with the share of credit risk (about 83 percent) and operational risk (around 15 percent).

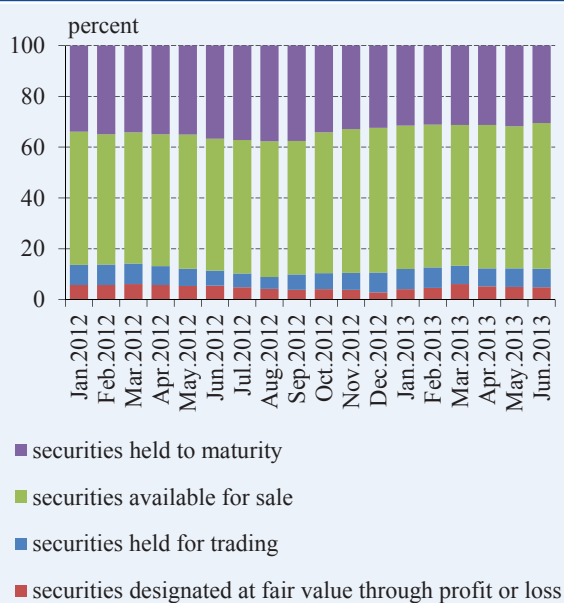
**Chart 3.51. Capital requirements by risk covered**



Source: NBR

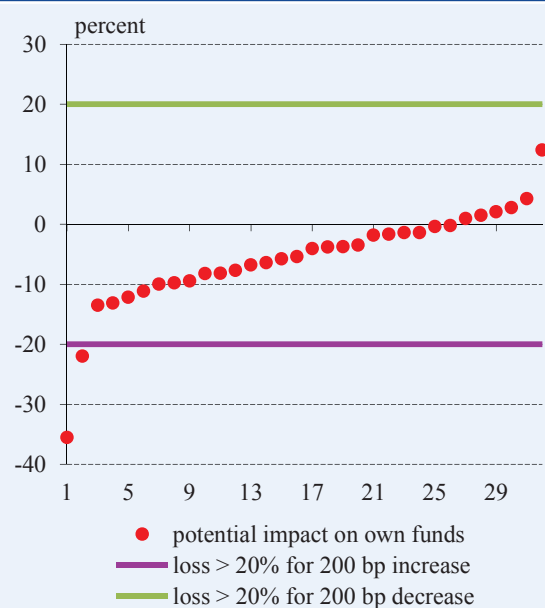
The use of hedging derivatives is low; their accounting value in total assets is insignificant and their share in total liabilities stood at nearly 0.4 percent. Transactions are carried out especially on OTC markets and the organised markets and the instruments usually traded on these markets (options, futures, etc.) are only occasionally resorted to.

**Chart 3.52. Balance sheet recognition of security holdings**



Source: NBR

**Chart 3.53. Credit institutions ranked by the impact of a 200 bp shock on own funds**

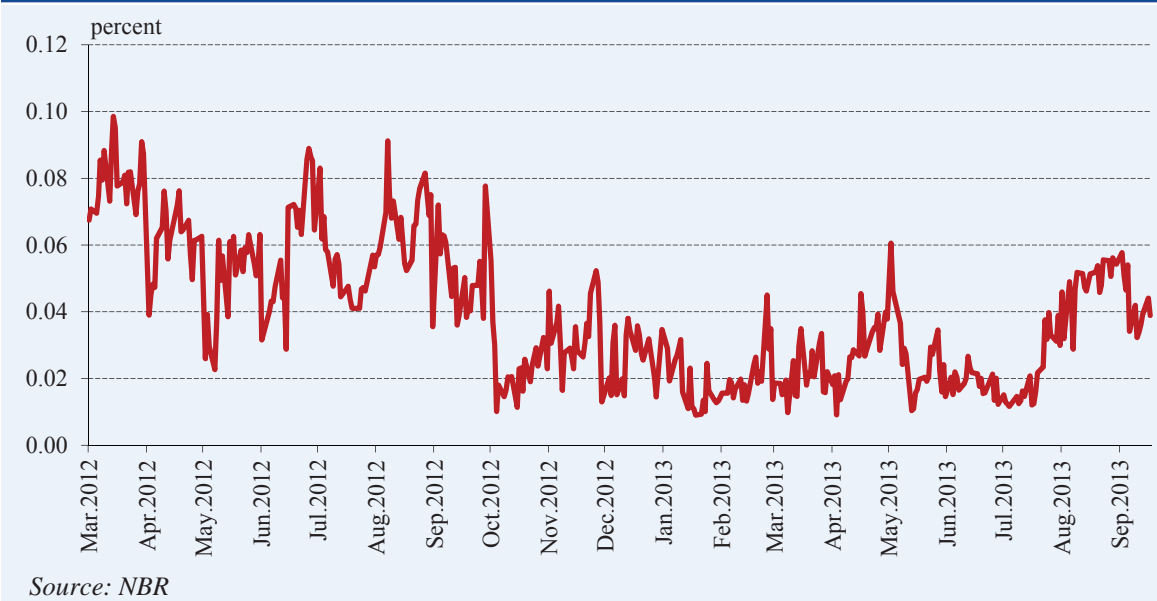


Source: NBR

### Currency risk

The currency risk across the financial system, quantified in an adverse scenario via the direct impact of an exchange rate shock on credit institutions' financial statements, stayed low. The maximum level of historical VaR<sup>68</sup> remained below the 0.1 percent band in total own funds June 2012 through August 2013. Since the drafting of the previous report, the risk associated with exchange rate volatility is on the rise, due to the larger share of government securities held by non-residents<sup>69</sup>, as well as to banks' shift towards reducing the volume of foreign assets, which has led to a faster deleverage, manifest at European level.

**Chart 3.54. Daily VaR as a share in total own funds across the banking sector based on the net foreign currency position of credit institutions**



#### 3.2.8. Profitability and efficiency

*At end-2012, the Romanian banking system posted a negative financial result, following the substantial growth of the volume of provisions for credit risk, owing to the impairment of financial assets (especially in the case of exposures towards non-financial corporations) and the effect of collateral revaluation. Operating revenues had a negative growth due to the drop in net interest income in the context of a low volume of new loans to the real economy. Credit institutions' concerns regarding the balance sheet adjustment and the cut in fixed costs led to the decline in operating expenses, turning operating profitability slightly positive in the last part of 2012.*

*The slower dynamics of expenses for loan loss provisions sets the stage for a better financial result in 2013. Therefore, data at end-August 2013 illustrate the comeback of profitability indicators, i.e. return on equity – ROE and return on assets – ROA, to positive territory (0.6 percent and 5.9 percent respectively). Recent assessments show an improvement trend in the profitability of the banking system, conditional upon the resumption of lending to the non-government sector. The low*

<sup>68</sup> VaR (value at risk) is calculated at the 99th percentile considering the daily movements in the exchange rate of the leu for a 3-year period and the daily currency holdings in each credit institution's portfolio, assuming that the position will be liquidated in 10 working days.

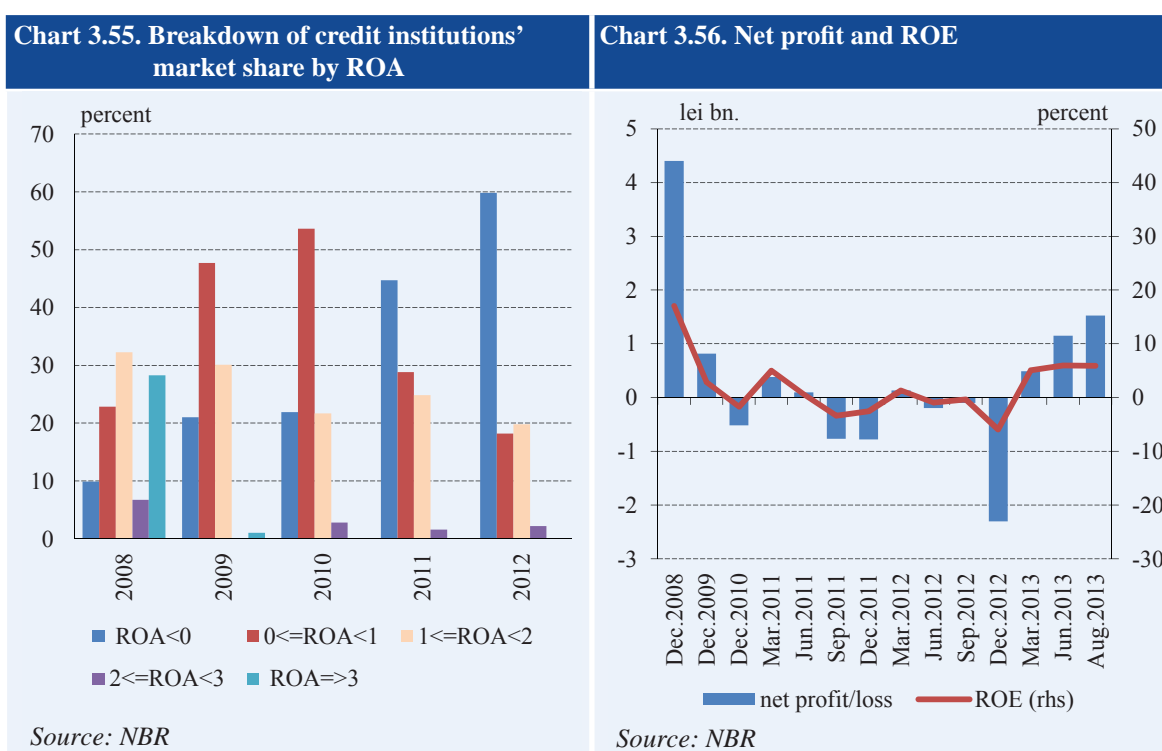
<sup>69</sup> In May 2013, the volume of government securities held by foreign investors was considerable (its share in total government securities equalled almost 28 percent).

funding costs, against the background of improved perception on sovereign risk and the one-off nature of impairment charges, generated by collateral reassessment amid low market liquidity, are the elements that justify the expected results<sup>70</sup>.

At end-2012, the Romanian banking system reported a lei 2.3 billion loss<sup>71</sup>. The major profitability indicators (return on equity – ROE and return on assets – ROA) reported negative values of -0.6 percent and -5.9 percent respectively.

The market share of loss-making banks rose by around 15 percentage points year on year, to 59.8 percent, especially following the growth of net expenses for IFRS provisions<sup>72</sup> (Chart 3.55.). Nevertheless, 18 out of the 40 credit institutions doing business in Romania at that time reported a profit, mainly concentrated in some large banks<sup>73</sup>.

The slightly improved efficiency of operational activity in H2, illustrated by the decline in the value of the cost/income ratio compared with the level recorded at end-June 2012 was insufficient to offset the evolution of net expenses for IFRS provisions (Chart 3.56.). Thus, starting with August 2012, the profitability of the Romanian banking system re-entered negative territory, against the background of the further build-up of non-performing loans and following the ample collateral revaluation conducted at the request of the NBR.



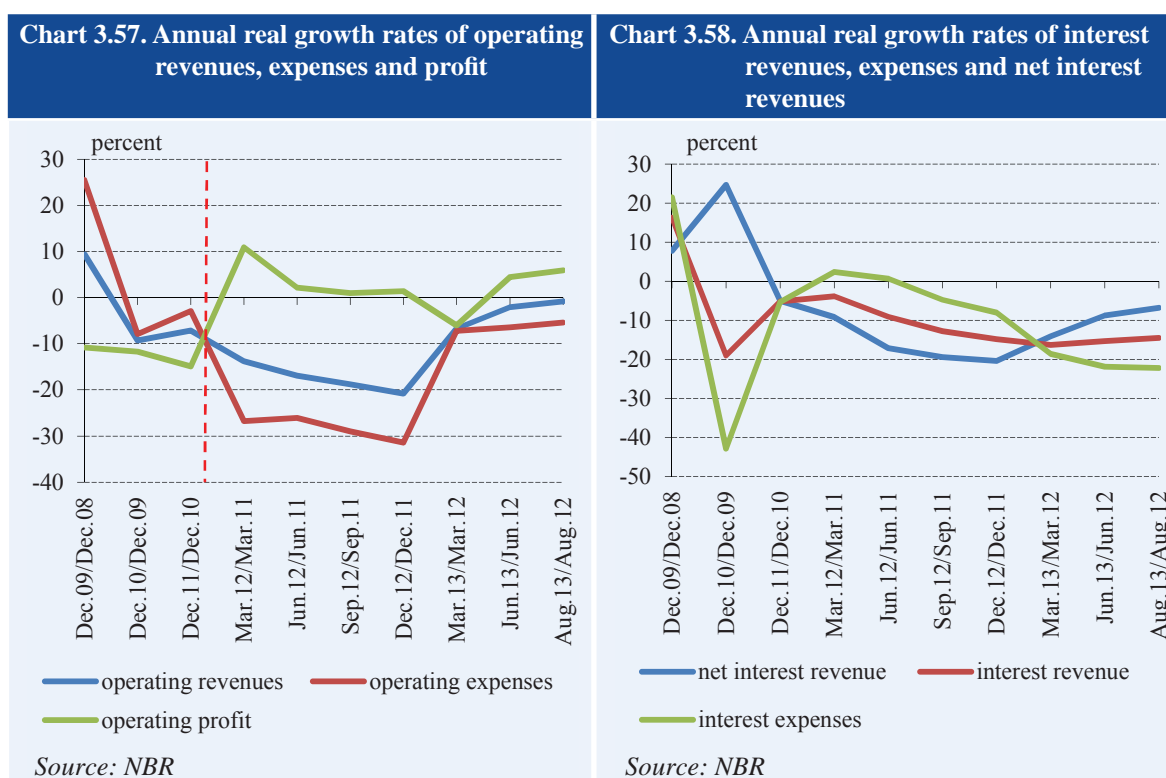
<sup>70</sup> In 2012, following the collateral reassessment during the impairment audit, the financial results of credit institutions were negatively affected by around lei 2.7 billion; the estimation of the impact of the ongoing collateral revaluation in 2013 indicates a marginal impact on the profit and loss account.

<sup>71</sup> Banks' financial results were impacted by the persistent aggregate demand deficit, which was influenced by the moderate dynamics of retail trade and the ongoing recession in the euro area, affecting the Romanian exports and the industrial output.

<sup>72</sup> The phrase "net expenses for IFRS provisions", used in Section 3.2.8. "Profitability and efficiency", corresponds to impairment expenses net of revenues used in the International Financial Reporting Standards (IFRS).

<sup>73</sup> Large banks are defined as entities with assets of more than 5 percent of total bank assets.

After having fluctuated slightly, the dynamics of operating profit re-entered positive territory at end-May 2013, in the context of operating costs declining at a faster pace than that of operating income (Chart 3.57.). Net interest income, the main item under operating revenues, witnessed further negative growth amid lending showing a downward trend starting with 2012 Q4. January through August 2013, the volume of interest-bearing financial assets, including holdings of securities held to maturity and available for sale, kept going down. The decline may be attributed to the lower external funding from parent banks, as well as to the redefining of the segments worth lending to, taking into account their relative performance (quantified based on the evolution of non-performing loans within each segment).



Credit institutions' financing cost dynamics, as reflected by interest expenses, decelerated in 2012 Q4, due to lower deposit rates on the domestic market, in the context of low interbank interest rates in the euro area (Chart 3.58.). Net income from commissions further declined in annual terms in 2012 H2, as well as January through August 2013, as a result of the drop in non-government credit. On the other hand, gains from trading in Treasury certificates and government bonds were on the rise, on the back of interest rate adjustments.

Banks' concern to cut down operating expenses translated into the negative dynamics of staff costs (-5.7 percent in December 2012 and -3.6 percent in August 2013) and depreciation costs (-14 percent in December 2012 and -11.3 percent in August 2013). At end-August 2013, the market share of banks incurring operating losses (4 percent) contracted by 1.1 percentage points from a year earlier.

According to the simulations conducted for the purpose of estimating short-term profitability, the banking system is expected to record positive financial results at end-2013. The existence of a significant spread between lending and deposit rates, as well as the enhanced operating efficiency reflected by the lower share of fixed costs in total operating expenses, offsets the effects of the negative dynamics of non-government credit.

### 3.2.9. Results of the banking sector solvency stress test

The National Bank of Romania conducts stress tests of credit institutions' capital adequacy on a regular basis, consistent with a methodology developed in cooperation with the IMF. The simulations are meant to identify any vulnerability that could generate disruptions across the banking sector, assuming that adverse macroeconomic scenarios materialise. The aim of the simulations is to prevent the accumulation of systemic risks, in case the risk factors considered show unfavourable developments. The stress test framework implies the estimation of the financial results banks would get under the analysed scenarios and the additional capital they should raise in order to cover losses incurred according to the scenarios, with a view to restoring the minimum required capital adequacy ratio for all the credit institutions.

The latest solvency stress test covered a two-year horizon (2013 Q3 – 2015 Q2) and was based on an adverse macroeconomic scenario that assumed a strong and persistent depreciation of the national currency (over 20 percent versus the euro), amid a negative economic growth, a marked rise in funding costs, an external environment hit by recession in the euro area, as well as a gradual depreciation of the euro versus the US dollar. According to the scenario, the probabilities of default considered in the case of loans to non-financial corporations and households respectively are comparable with their historical maximum, recorded in 2009. Moreover, as regards housing loans, the maximum default rate considered stood at roughly 6 percent, a value markedly higher than the historical one. This may be attributed to the prevalence of EUR-denominated loans in this category.

The stress test results show that banks would maintain an adequate capitalisation level under the scenario, despite a noticeable contraction in the solvency ratio. Specifically, at the end of the period under review, the solvency ratio would drop by almost 4 percentage points (to 10.8 percent in June 2015, from 14.7 percent in June 2013). During the period under consideration, valuation adjustments for impairment of financial assets would rise by around 27 percent when it comes to exposures to households and by about 31 percent in the case of exposures to companies. Under this scenario, a small number of small-sized credit institutions (without systemic impact) might require additional capital. This can be associated with the current portfolio structure of the institutions in this category, with loans holding a smaller share in total interest-bearing financial assets compared with the previous years. The inability to generate a significant operating profit (as a primary source to cover the losses generated by the impairment of financial assets) is the main factor justifying the results obtained in the case of these credit institutions (the share of fixed costs in total operating expenses is significantly larger than that held by large credit institutions, as a result of the economies of scale reported by the latter).

The results do not take into account the positive impact of the expected increase in own funds considered when determining the solvency ratio over the reviewed period, following the gradual removal of the currently used deductions, also known as prudential filters. During the simulations, a constant spread was maintained, for prudential reasons, between prudential valuation adjustments and the IFRS-based specific adjustments, in order to minimise a potential need for additional capital contributions. Moreover, mention should be made that the stress test results are consistent with the high severity level of the scenario, exceeding the severity level of the scenarios considered by ABE within the EU-wide stress tests.

### 3.3. Non-bank financial sector

#### 3.3.1. Insurance sector

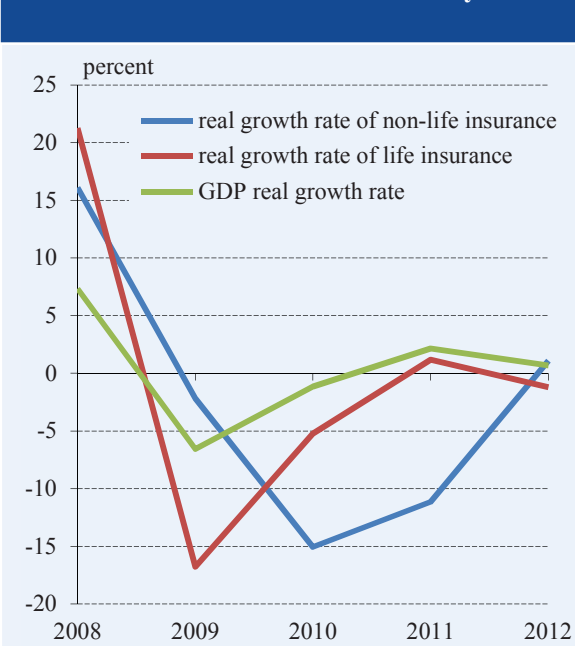
The insurance sector strengthened in 2012, against the background of economic growth remaining in positive territory. Financial intermediation ratio, assessed in terms of gross premiums written as a share in GDP, discontinued its negative performance seen in the previous years, standing at the level recorded in 2011. The non-life insurance market expanded slightly in real terms, for the first time in the past four years, while the related ratio of gross claims paid to gross premiums written remained constant. The average profitability ratio of insurance companies witnessed a slight recovery, but remained in negative territory.

Gross premiums written in the Romanian insurance sector went up 5.56 percent in 2012, mainly on account of the 6.09 percent advance of the non-life insurance market.

In real terms, the slight decline of the life insurance market was offset by the non-life insurance market re-entering positive territory (Chart 3.59.). The insurance sector therefore posted a modest real increase, strengthening after having witnessed a series of unfavourable developments in the past years. The growth of gross premiums written related to civil liability insurance for motor vehicle owners and insurance products under “Other” (especially general civil liability insurance and other property insurance) had a significant contribution to the recovery of non-life insurance market.

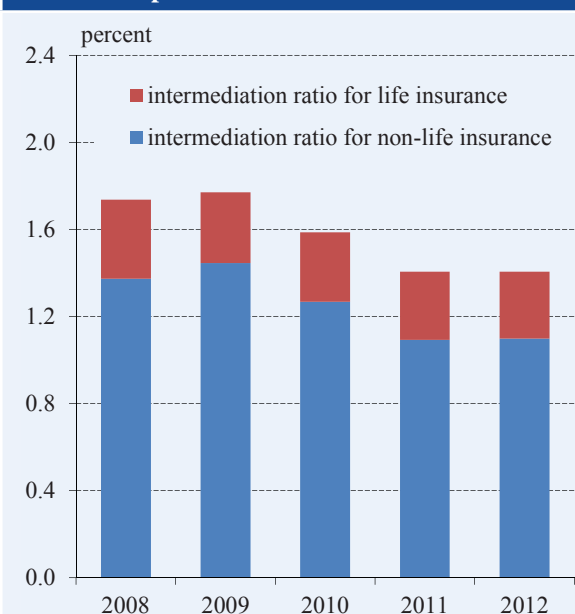
The moderate real changes in the gross premiums written caused the financial intermediation in the insurance sector to stick to the level seen in 2011 (Chart 3.60.). The discontinuation in the downward trend in gross premiums written as a share in GDP, which had started in 2009, shows that real GDP growing for the second consecutive year had a positive impact on the insurance sector.

**Chart 3.59. Insurance sector and GDP dynamics**



Source: FSA, NBR, NIS

**Chart 3.60. Insurance sector – share of gross premiums written in GDP**



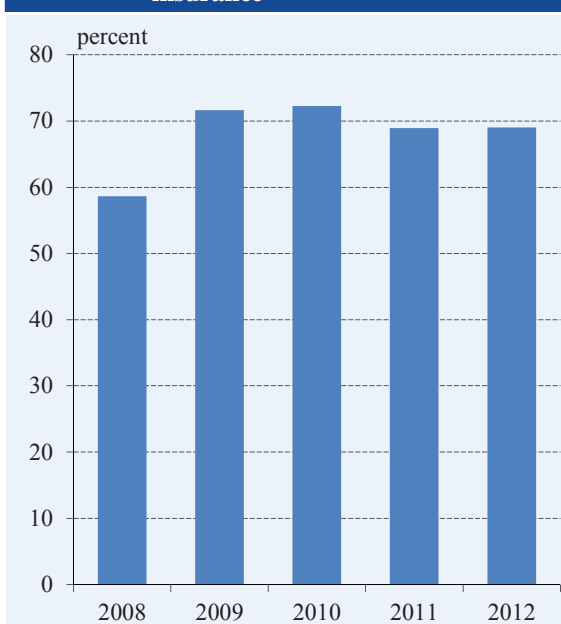
Source: FSA, NBR, NIS

Both gross claims paid for non-life insurance and gross premiums written on this segment moved up in 2012, posting roughly equal rates of increase. As a result, the ratio of the two elements remained relatively steady (Chart 3.61.). The rise in the gross claims paid for non-life insurance was largely attributed to the evolution of this indicator for civil liability insurance for motor vehicle owners.

The breakdown of investments made by insurance companies remained largely unchanged in 2012 year on year (Chart 3.62.). Bonds and other fixed-income securities further held the largest share in total investments, albeit falling for the first time since the onset of the crisis. Moreover, deposits with credit institutions continued to decline, while life insurance investments for which exposure to investment risk is transferred to customers saw an increase. These changes took place against the background of low returns both domestically and internationally, as insurance companies shifted to life insurance plans with an investment component, in response to customers' interest in such products.

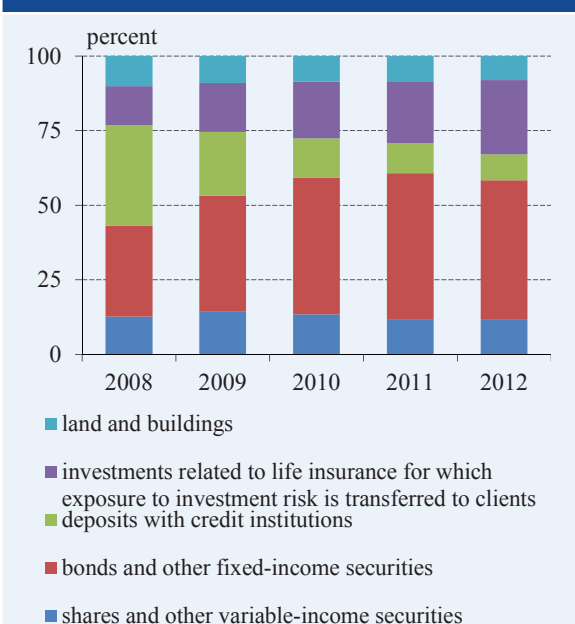
The aggregate financial result of insurance companies was negative in 2012 as well. The average ROA for the ten largest insurance companies in terms of asset value rose slightly, but remained in negative territory for the second consecutive year (Chart 3.63.).

**Chart 3.61. Share of gross claims paid in total gross premiums written for non-life insurance**



Source: FSA

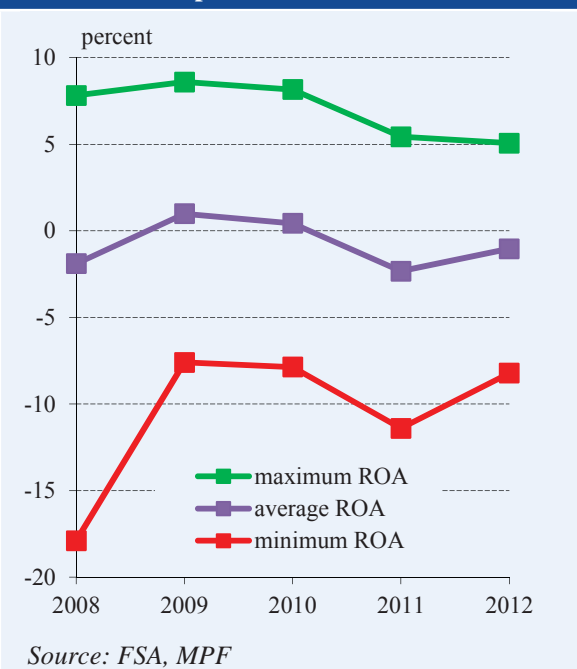
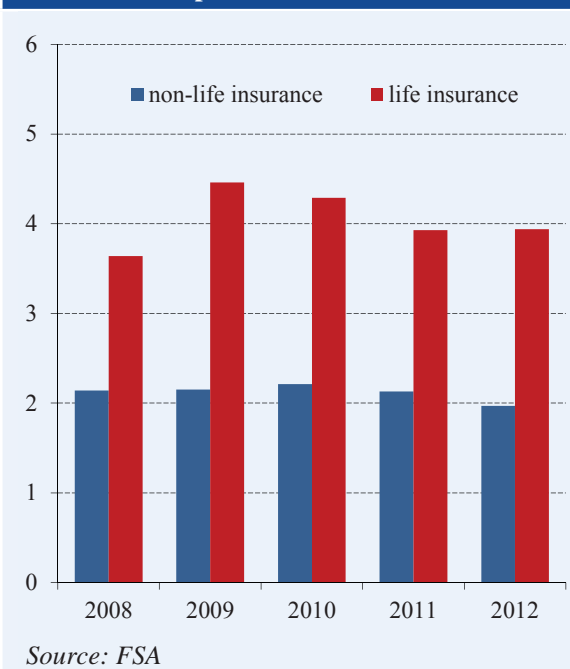
**Chart 3.62. Key investments of insurance companies**



Source: FSA

At end-2012, the average solvency ratio for non-life insurance companies fell slightly, while that for life insurance companies stood at a level similar to that reported at end-2011 (Chart 3.64.).



**Chart 3.63. ROA for the top ten insurance companies in terms of asset value**

**Chart 3.64. Average solvency ratio of insurance companies**


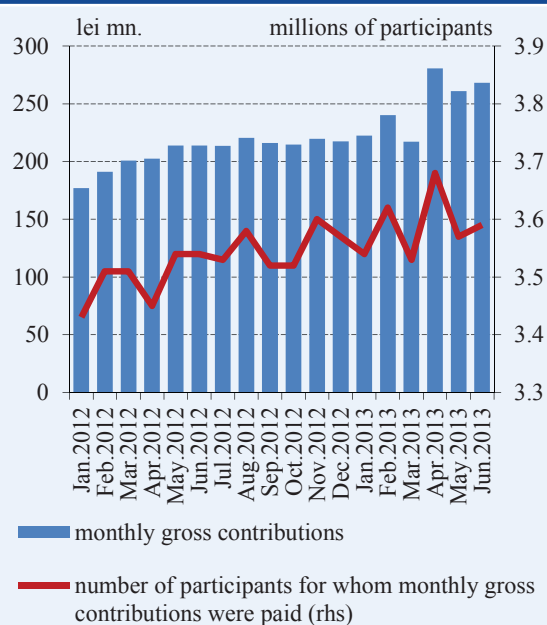
### 3.3.2. Private pension funds

The private pension funds are not exposed to significant risks that might have an adverse impact on the financial system stability, as their total assets still stand at a low level compared to those of the other financial system components. The breakdown of the investment portfolios shows a low risk profile, given the large share of government securities. The performance of the private pension funds improved in 2012 due to the favourable domestic developments, while the share of exposures to the external markets in total financial assets followed a downward path.

During the period since the release of the previous report, the private pension funds continued to collect contributions and the number of participants went up, while the payment obligations stood at a low level. Thus, net assets under Pillar II and Pillar III grew by 45.6 percent and 34.2 percent, respectively, during June 2012 – June 2013. At end-2012, total assets of privately-managed pension funds and optional pension funds accounted for 1.64 percent and merely 0.1 percent respectively of GDP. The monthly gross contributions transferred to Pillar II increased in the period under review, despite a nearly flat performance in 2012 H2, amid the slower GDP growth, the larger number of participants for whom contributions were paid and the rise in the contribution quota to 4 percent in January 2013<sup>74</sup> representing the main supporting factors (Chart 3.65.).

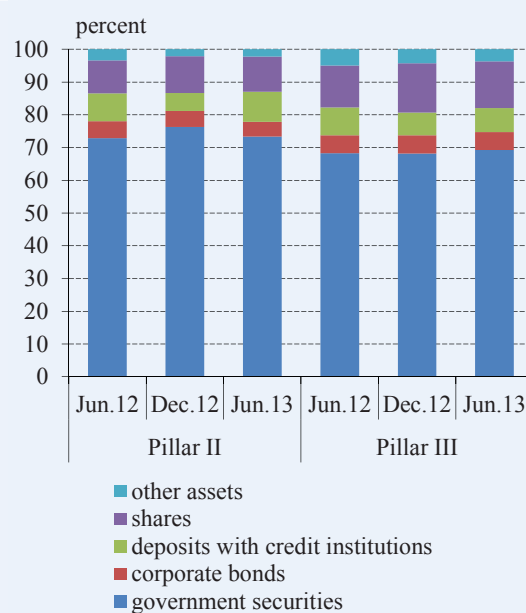
<sup>74</sup> The contributions for January 2013 were paid in March 2013.

Chart 3.65. Contributions to Pillar II



Source: FSA

Chart 3.66. Breakdown of investment portfolios

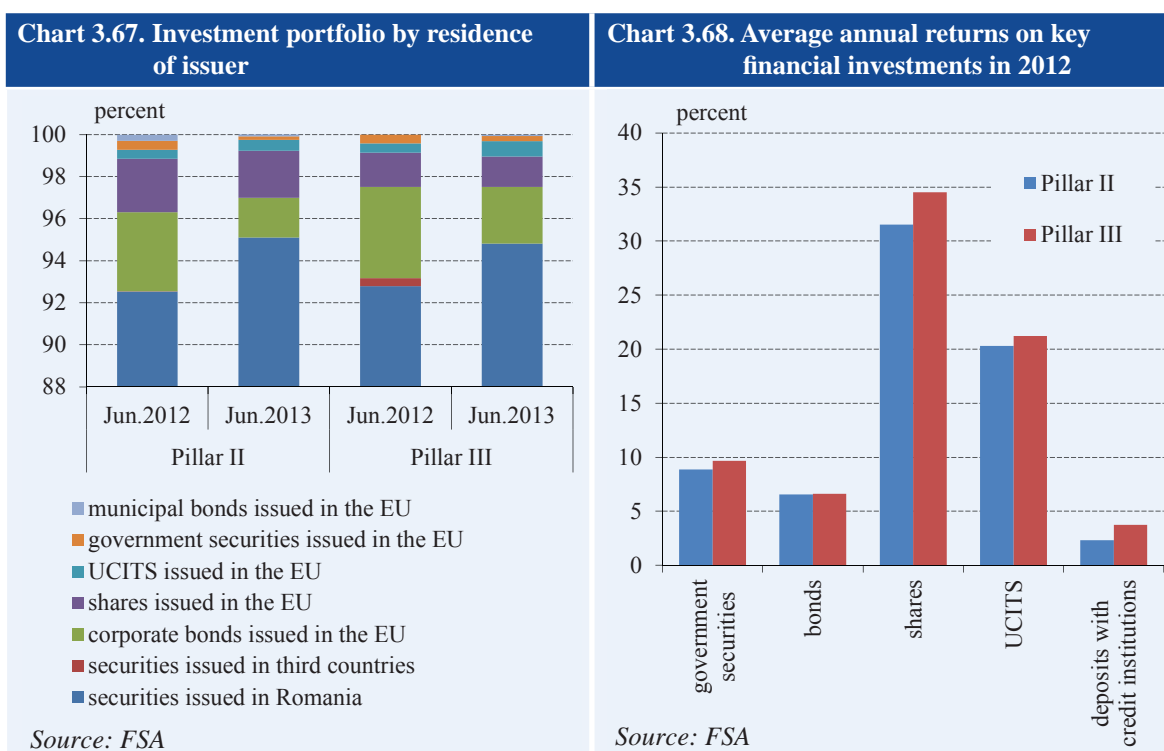


Source: FSA

As regards the diversification of the investment portfolios of private pension funds, the share of government securities stayed high for both Pillar II and Pillar III, posting a slight increase in June 2013 against the same year-ago period. Apart from investments in government securities, the privately-managed pension funds opted for investing the recently collected contributions mainly in bank deposits, while optional pension funds decided to increase stock holdings, in view of their higher yields compared with the returns on money market instruments (Chart 3.66.). Thus, the pension funds attempted to strike a balance between achieving a satisfactory level of total returns and maintaining a low risk profile. Concurrently, the exposure to the negative developments on the external financial markets kept narrowing, mainly as a result of the smaller share of investments in bonds issued by companies in EU Member States (Chart 3.67.).

All the categories of financial instruments in which the private pension funds had invested reported positive returns in 2012, the stock acquisitions and investments in undertakings for collective investment in transferable securities (UCITS) switching from negative returns in 2011 to significant yields due to the overall positive performance of capital markets. In addition, the higher returns on government securities contributed to an improved overall performance of pension funds compared with the previous year (Chart 3.68.).

While the average maturity of fixed-income instruments held by the private pension funds remained at almost six years, the average maturity of deposits with credit institutions kept declining to 32 days in 2012 from 35 days in 2011. Most corporate bonds in the category of fixed-income instruments had maturities longer than 10 years, yet roughly 95 percent of the government securities featured shorter maturities on account of the low volume of long-term securities issued so far. The large stock of short- and medium-term financial instruments limits the pension funds' capacity to manage future pension obligations more efficiently.



### 3.3.3. Non-bank financial institutions

The activity of non-bank financial institutions (NBFIs) saw a slight decline during January 2012 – June 2013. The NPL ratio is still high, but credit risk is contained due to the provisions set up to cover expected losses. The latest macroeconomic developments had a favourable impact on the profitability of NBFIs, which reverted to positive territory at end-2012, following the improved operating efficiency and the cut in net provisioning costs.

Since the release of the previous report, the activity in the NBFIs sector contracted somewhat. Thus, at end-June 2013, the aggregate assets of this sector totalled lei 32.8 billion, while loans granted equalled lei 22 billion, declining, in nominal terms, by 1.6 percent and 5.4 percent respectively compared to June 2012 (Chart 3.69.). During the same period, the market share of the NBFIs, determined based on the share of loans to the private sector, narrowed slightly to 8.9 percent. The rate of change of loans granted by the NBFIs was further correlated with the changes in the loan portfolio of credit institutions, the domestic and external economic environment affecting the lending conditions in both sectors of the financial system (Chart 3.70.).

Chart 3.69. Developments in the NBFI sector

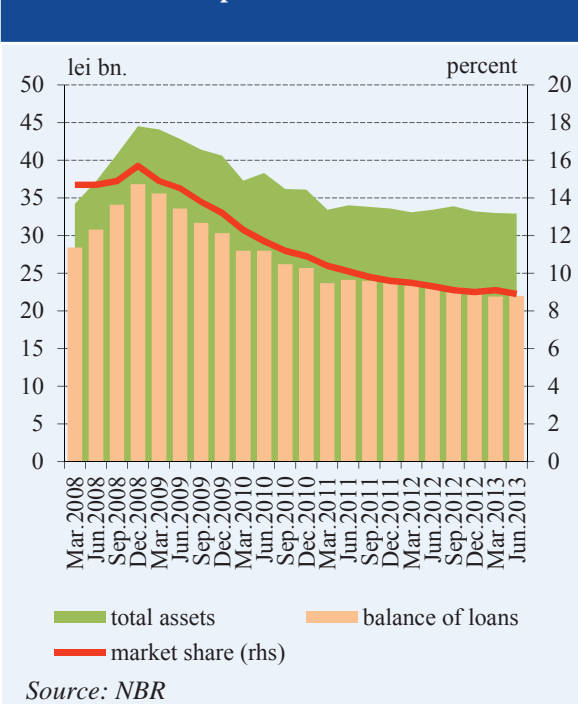
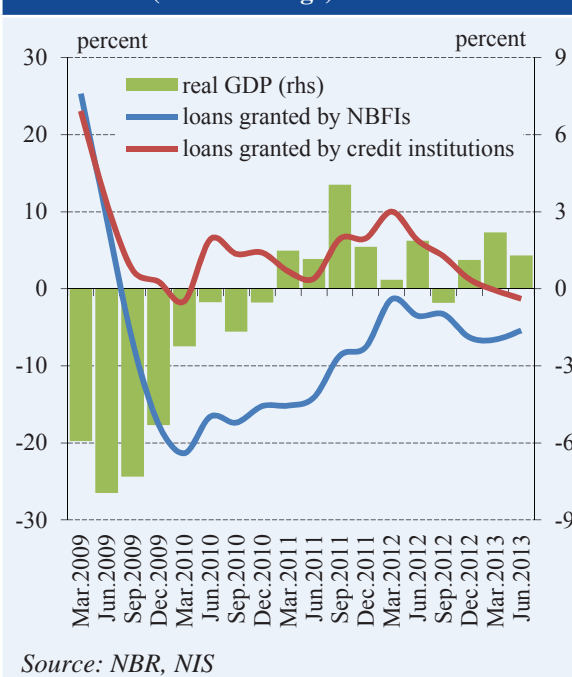
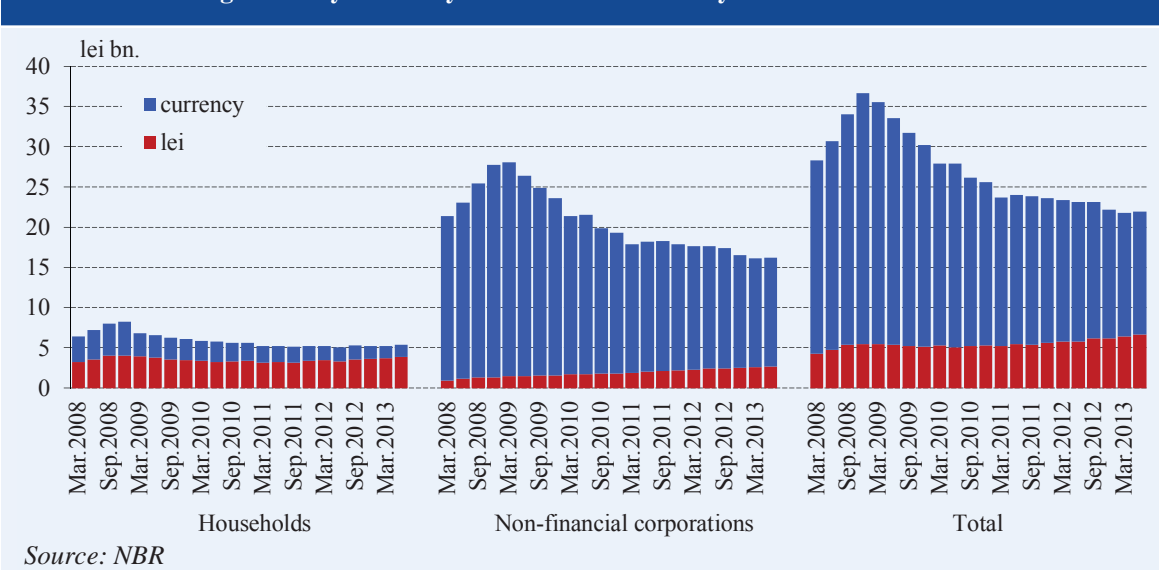


Chart 3.70. Lending and GDP dynamics (annual change)



The contraction in loans granted by the NBFIs to the private sector was attributed to the evolution of funding of non-financial corporations. Therefore, at end-June 2013, the segment of non-financial corporations contracted by roughly 8 percent in annual terms, while the stock of loans to households moved up 5.2 percent (Chart 3.71.). In terms of currency, the share of leu-denominated loans widened for both households and non-financial corporations, following the implementation of the NBR regulations aimed at deterring foreign-currency lending to unhedged borrowers. In addition, over the past years, the NBFIs' business model changed, implying a shift towards other types of financing to the detriment of financial leasing operations.

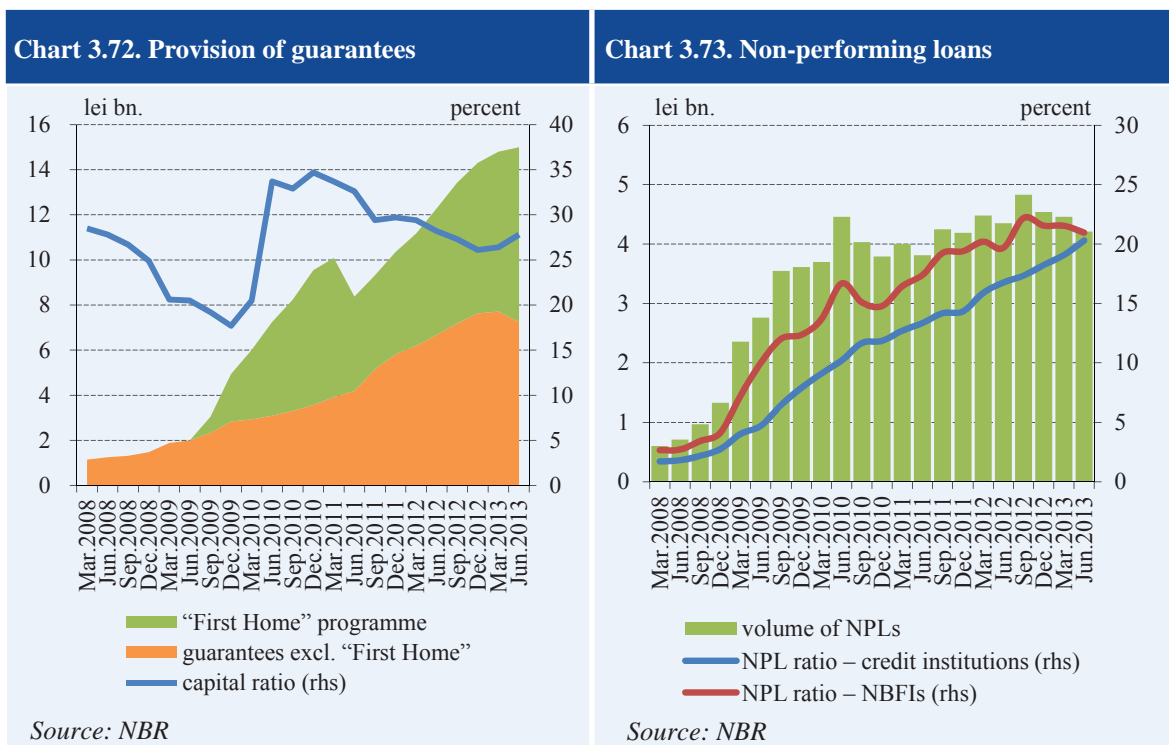
Chart 3.71. Loans granted by NBFIs by borrower and currency



As for the NBFIs' financing by economic sector, during June 2012 – June 2013, loans to agriculture rose by 29 percent (12 percent in total loan portfolio), while the exposure to the services sector, accounting for around 50 percent of the total loan portfolio, narrowed by 7 percent.

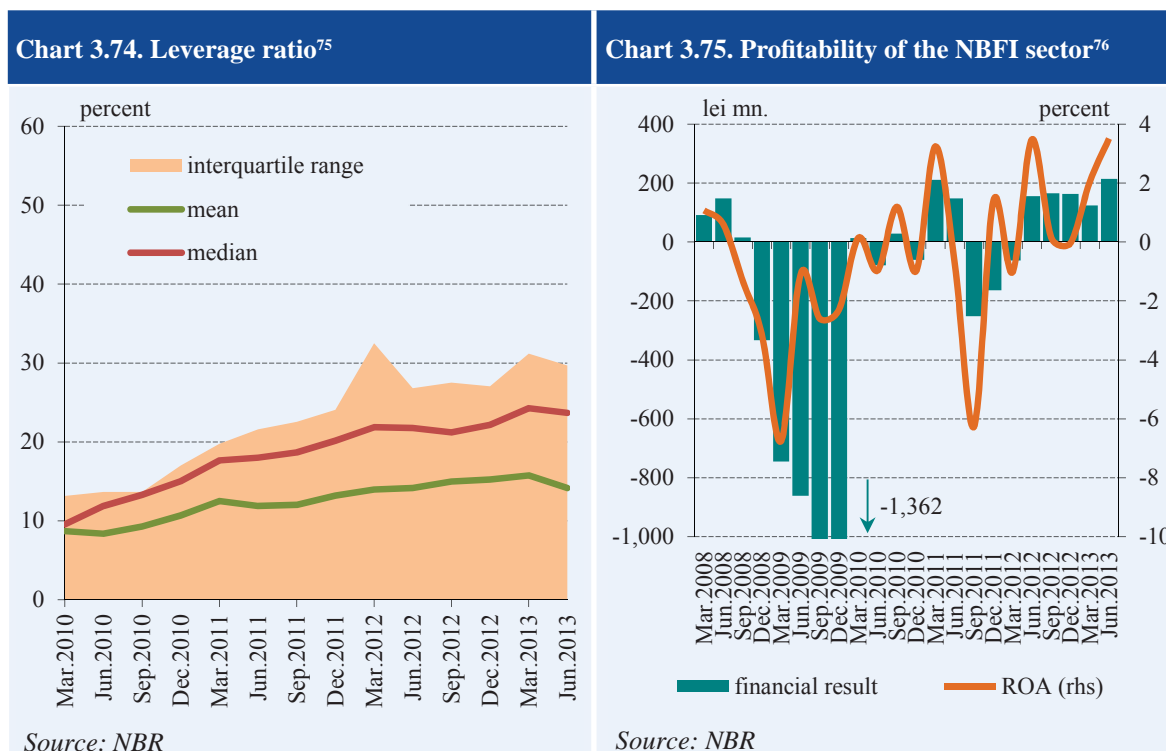
The guarantees provided by the guarantee funds with a view to supporting the lending activity witnessed an upward trend, due to both the continuation of the “First Home” programme and the rise in the guarantees provided under other government programmes (Chart 3.72.). Accordingly, at end-June 2013, the total guarantees assumed by these entities accounted for 7 percent of credit to non-government, up 1.3 percentage points compared with 2012 Q2.

The NPL ratio for the NBFIs sector reached 21 percent in June 2013 (compared with 19.7 percent a year earlier). The upward trend in the NPL ratio was a common feature of the NBFIs and credit institutions (Chart 3.73.), as a result of the constraints on borrowers' financial standing in the context of modest GDP growth. Nevertheless, the spread between the NPL ratios for the two financial sub-sectors narrowed in 2013 Q1 year on year. Credit risk is mitigated by the provisions made for expected losses (the provisioning coverage ratio for loans under “Loss” was 95 percent in June 2013). The removal of non-performing loans from the balance sheet and the foreclosure on collateral, in the context of a large volume of overdue loans in the portfolio of the NBFIs since the onset of the crisis, pose a challenge to the entire sector in the period ahead.



The analysis of the leverage ratio (Chart 3.74.), determined as a ratio of own funds to total assets, reveals the improvement of funding from own sources. This favourable development stemmed from shareholders' further efforts to support the NBFIs' activity. Specifically, the NBFIs recorded in the Special Register performed capital increases to cover the losses reported in the previous years and to comply with the NBR's prudential requirements. Moreover, the breakdown of own funds reveals a larger share of equity capital (54 percent in June 2013 versus 35 percent a year earlier), with part of the subordinated loans being converted into share capital.

The improvement in the domestic macroeconomic environment was reflected by the profitability of the NBFi sector (Chart 3.75.). For the first time in the past four years, the NBFi sector ended the year on a profit at aggregate level, due to the improved operating efficiency and the cut in net provisioning costs. In early 2013, the aggregate financial result remained in positive territory.

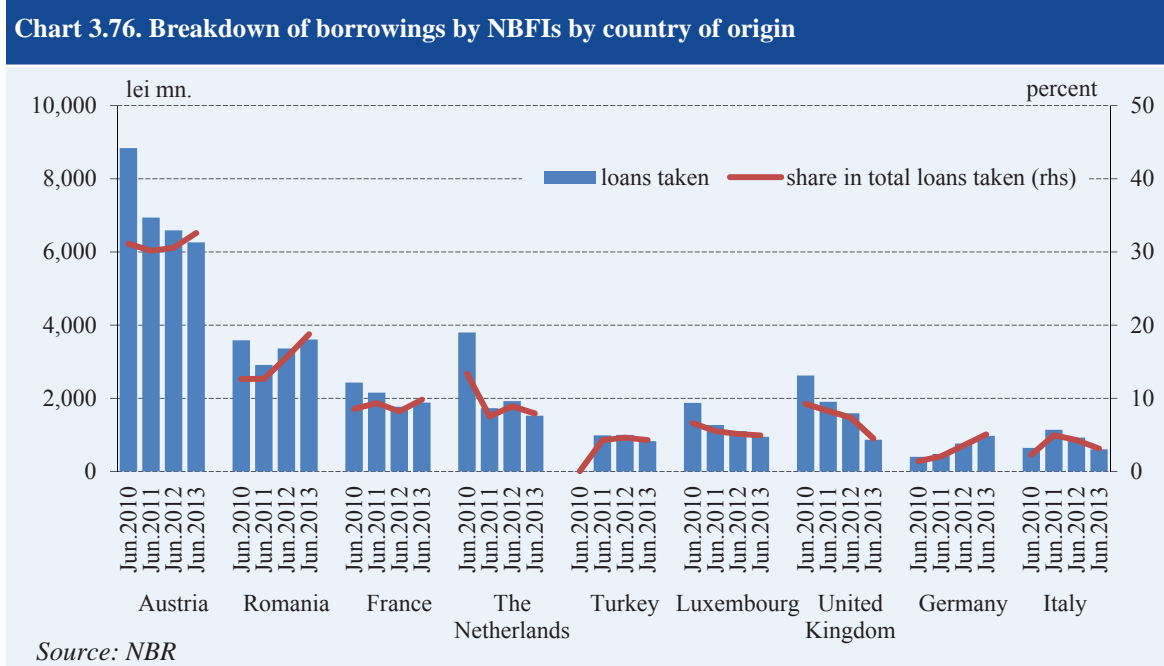


In terms of financing sources, the main resources were taken by the NBFIs directly from the international markets (Chart 3.76.). The deleveraging pursued by the European financial groups also had an impact on the funding structure of the NBFIs. In relative terms, during June 2012 – June 2013, the share of loans from residents increased by around 3 percentage points (to 18.7 percent), following the drop in foreign liabilities and the slight increase in the exposures of the financing entities in Romania.

In the Romanian financial system, the contagion risk between the NBFi sector and the credit institution sector, determined based on the balance sheet interlinkages, stayed at relatively low levels. The connections between the two sectors may be chiefly indirect, as they belong to certain European financial groups and share the same financing sources. The loans granted by domestic credit institutions to the NBFIs amounted to lei 2.4 billion at end-June 2013, accounting for roughly 1 percent of total non-government loans provided by the banking sector, the largest part consisting of intragroup loans. From the NBFIs' perspective, the balance sheet interlinkages between the two sectors are apparent especially on the asset side, with the claims on the banking sector, mainly in the form of deposits, accounting for approximately 12 percent of total assets, while, on the liabilities side, capital and borrowings from credit institutions held around 8 percent.

<sup>75</sup> Note: The interquartile range comprises the values between quartile 1 and quartile 3 of the distribution. The sample may be subject to changes depending on the NBFIs recorded in the Special Register.

<sup>76</sup> Profitability is assessed based on the reports submitted by the NBFIs recorded in the Special Register. The financial result includes the gross cumulative result since the start of the year, while ROA was determined based on the annualised values of the quarterly gross financial result.



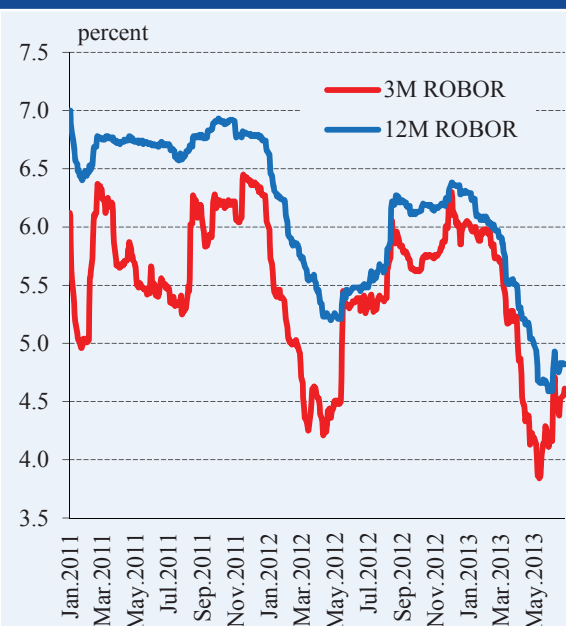
### 3.4. Financial markets

At end-2012, financial market volatility embarked on a downward trend, which persisted over the first five months of 2013. The favourable developments in investors' risk aversion caused short-term interest rates and yields on government securities to decline. A somewhat higher instability was manifest only from mid-May until the first part of July 2013, as a result of net capital outflows associated with global shifts in exposure to emerging markets induced by heightened investor uncertainties surrounding the timing and magnitude of the tapering-off by the Federal Reserve System (Fed) of its quantitative easing in the USA.

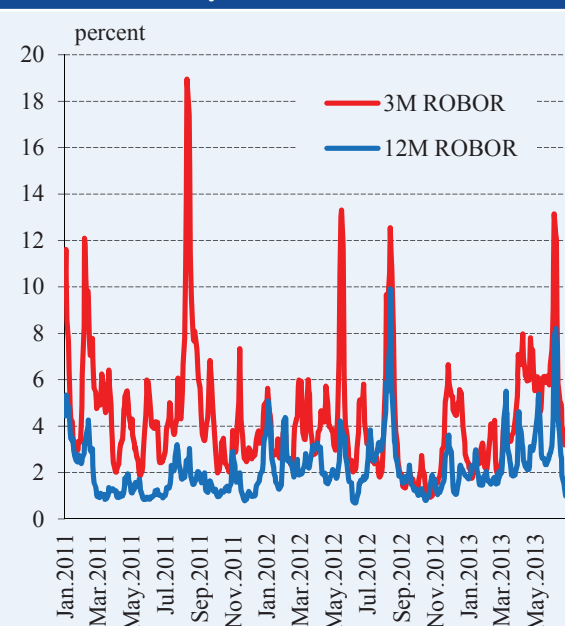
#### 3.4.1. Money market

At the beginning of 2012 Q2, interbank money market rates rose for all maturities following the change in liquidity conditions and the credit institutions' revised expectations on liquidity developments and the monetary policy rate (Chart 3.77.). The upturn in interbank money market rates persisted during the next quarters of 2012, once the National Bank of Romania tightened its control over banking system liquidity. Average interest rates on the interbank money market peaked in December 2012, when the 3M and the 12M ROBOR rates stood by approximately 1.55 percentage points and 0.73 percentage points respectively above their March readings. Early 2013 saw a trend reversal in ROBOR rates, which hit a 2-year low in May. These developments were mainly the result of adequate liquidity management by the central bank that decided to increase successively the ceiling on its money injections via repos with one-week maturity in the period January-February 2013.

Chart 3.77. Average interbank money market rates



Source: NBR

Chart 3.78. Stochastic volatility<sup>77</sup> of interbank money market rates

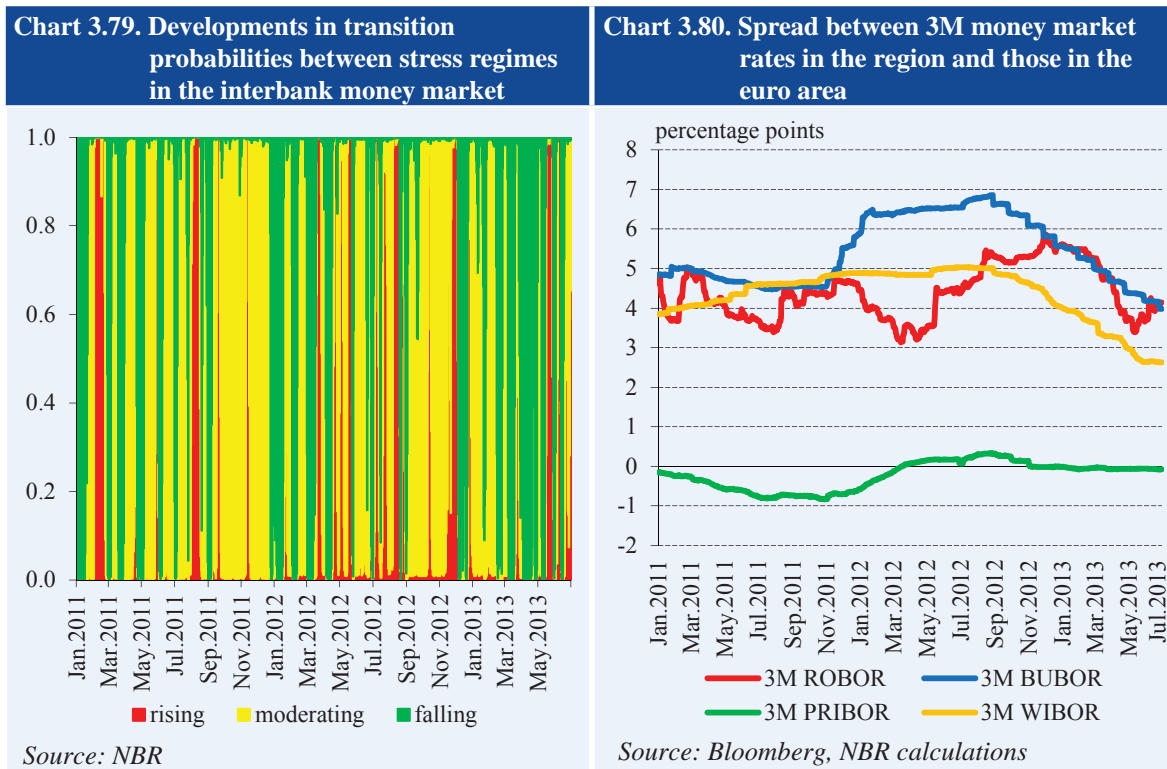
Source: NBR, NBR calculations

Moreover, starting March 2013, the monetary authority also organised full allotment tenders for the amounts requested by credit institutions via market operations. The downward path in interbank money market rates January through April 2013 was also ascribed to some endogenous liquidity factors such as the increase in net government securities redemptions performed by the Ministry of Public Finance and the recovering economic activity in the real sector. On the other hand, global financial market tensions were rekindled by the Fed's possible tapering-off of its quantitative easing in the USA and contributed to the adjustment of credit institutions' expectations regarding the developments in liquidity conditions and the monetary policy rate, weighing heavily on the 3M and 12M ROBOR rates. As a result, in the period 15 May – 15 June 2013 the 3M and 12M ROBOR rates saw maximum rises of 0.86 percentage points and 0.34 percentage points respectively.

At the same time, the global financial market turmoil sparked by the uncertainty surrounding the outlook for the Fed to carry on its liquidity injections into the US financial system caused the widest fluctuations in 3M and 12M ROBOR rates in 2013 (Chart 3.78.). The volatility peaks in the period May-June 2013 were similar in height to those induced by domestic tensions in July 2012. During the bank crisis in Cyprus, volatility posted moderate growth which impacted the 3M ROBOR rate alone. Starting with 2012, the interest rate volatility spread for the considered maturities narrowed on a yearly basis.

<sup>77</sup> In order to calculate stochastic volatility, a data generating process based on the first order autoregressive model for the mean equation and a geometric Brownian move for variance dynamics was considered. With a view to estimating the considered model, Bayesian techniques based on Markov Chain Monte-Carlo (MCMC) simulations were resorted to. Unlike the conditioned volatility, actually a linear dependency function relative to the previous temporal evidence, stochastic volatility is characterised by sensitivity not as high as the considered mean equation and, implicitly, the used data sample.





Stress conditions<sup>78</sup> in the interbank money market waned significantly in 2013 (Chart 3.79.). Endogenous factors of the Romanian interbank money market were the main source of the persistently favourable bank financing conditions from February to mid-May 2013, given that the ECB decided to perform a 0.25 percentage point cut in its key interest rate no sooner than May. The average rate of increase of the spread stood at approximately 4 percent under stress conditions and -3.3 percent when financing conditions loosened up.

Compared to the developments across the region, the downtrend in the spread between the 3M ROBOR rate and the 3M EURIBOR rate was a feature common to the money markets of Poland and Hungary as well (Chart 3.80.). Starting November 2012, the PRIBOR/EURIBOR rate spread reverted to negative territory, which points to improved investor perception towards the regional risk.

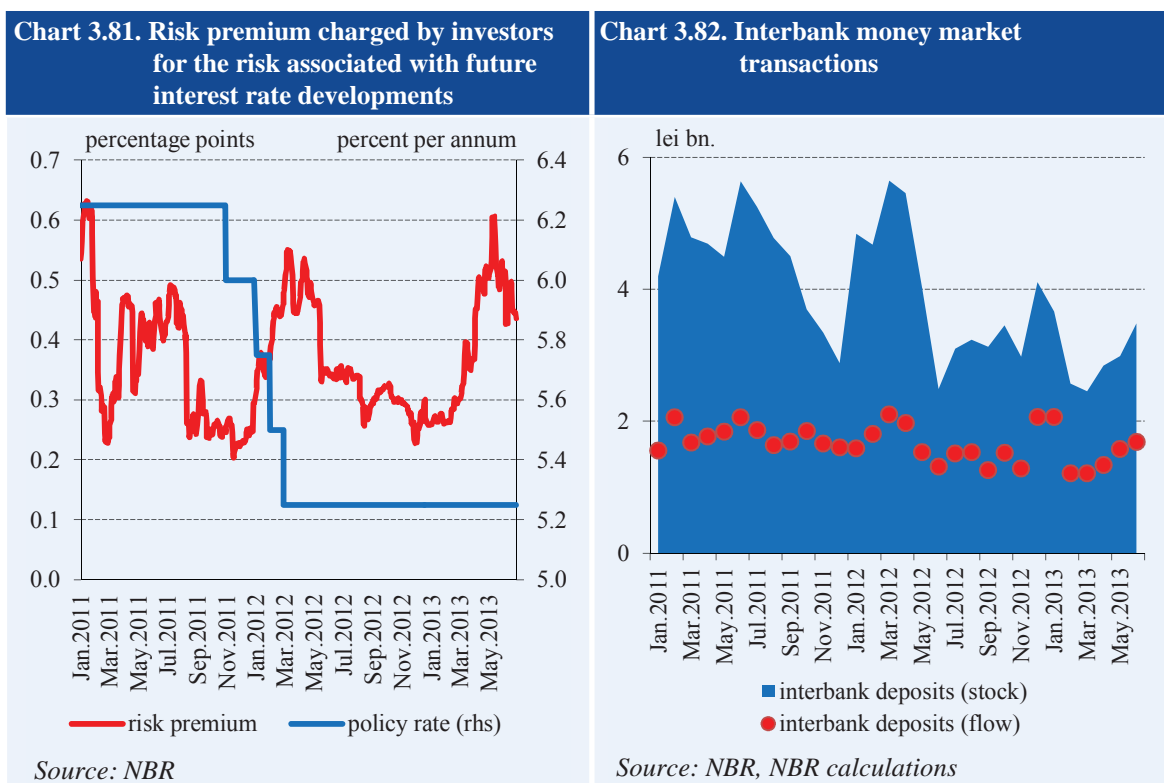
The risk premium<sup>79</sup> that investors charge for the risk associated with future developments in the short-term interbank money market rate in Romania followed a downward drift in 2012 (Chart 3.81.). However, starting February 2013, the risk premium started to expand, while the monetary policy rate was left unchanged at 5.25 percent per annum. This trend persisted until mid-May when a reversal occurred, simultaneously with the increase in the 3M ROBOR rate, which came closer to the policy rate. From the latter half of June 2012 onwards, interbank money market liquidity<sup>80</sup> recorded relatively

<sup>78</sup> In order to analyse stress conditions related to money market financing, the spread between 3M ROBOR (Romania) and 3M EURIBOR rates was considered. This methodology is based on a Markov model allowing the interest rate spread dynamics to shift between the different regimes. Considering that a high probability relative to the shift to a growing interest rate spread regime is indicative of heightening stress conditions in the interbank money market, applying a Markov model provides an overview of the developments in short-term bank financing pressures.

<sup>79</sup> The risk premium charged by investors for the assumed risk is the difference between the forward rate and the expected change in the short-term interbank money market rate. The analysis considered 1M ROBOR and 1M forward rates. In order to calculate the risk premium, an affine model was used for the term structure of short-term rates, thus applying the Mahdavi method that leaves out arbitraging opportunities.

<sup>80</sup> Liquidity was measured by the volume of interbank transactions.

stable developments, ranging from lei 1.3 billion to lei 1.5 billion (Chart 3.82.). The only exceptions were December 2012 and January 2013, when interbank liquidity hovered around lei 2.1 billion. Interbank liquidity in the money market trended upwards in the period May-June 2013.

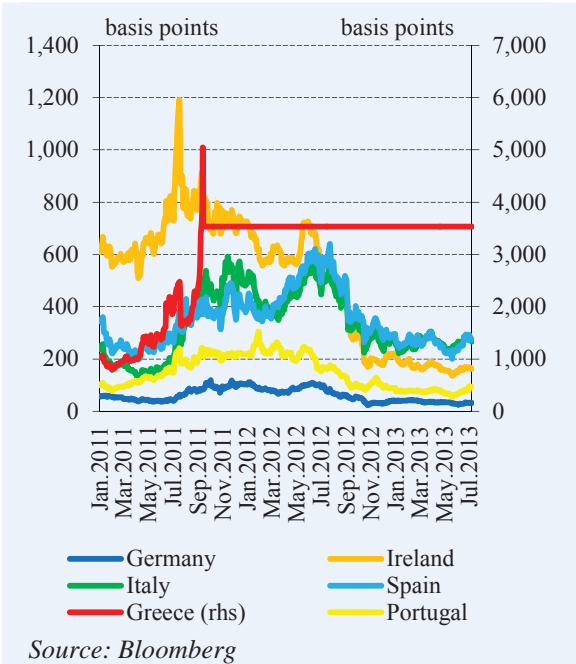


At the same time, against the backdrop of an improving economic environment in Europe, partly due to market expectations of an exit from the recession in the course of 2013, and the ongoing fiscal consolidation, risk aversion on Europe's financial markets declined. These factors caused a sharply downward trend in CDS quotes for euro area countries and CEECs starting May 2012 (Charts 3.83. and 3.84.).

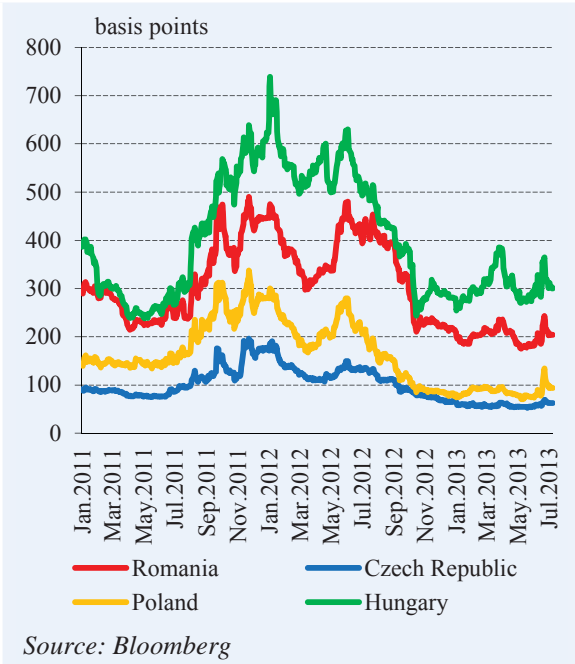
The developments in CDS quotes for Romania followed the investors' trend across the region. In 2013, they posted relatively moderate volatility, hovering around 200 basis points, compared with approximately 346 basis points, on average, during 2012. The turmoil stemming from information on a possible tapering-off by the Fed of its quantitative easing in the USA prompted a short-lived rise in CDS spreads for the countries in the region, except the Czech Republic where the negative signals on financial markets had a negligible impact on the country's CDS quotes.

At the same time, the initial exposure reduction in the entire emerging market asset class translated into a temporary increase in CDS and government bond spreads. Subsequently however, investors reconsidered their exposures and chose to invest in countries that reported improved economic fundamentals and where the fiscal and external deficits were being adjusted or recorded low levels. Noteworthy is the case of Romania, where the share of government securities held by non-residents reverted to its May 2013 level.

**Chart 3.83. Developments in 5Y CDS quotes for some euro area countries**



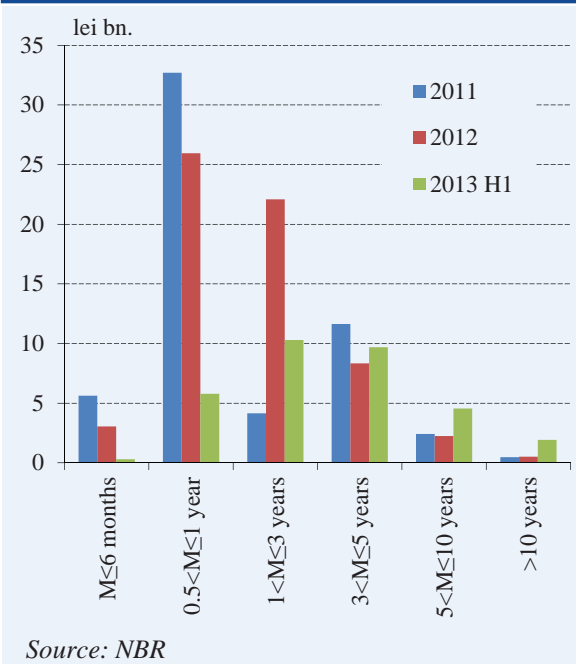
**Chart 3.84. Developments in 5Y CDS quotes for some countries in the region**



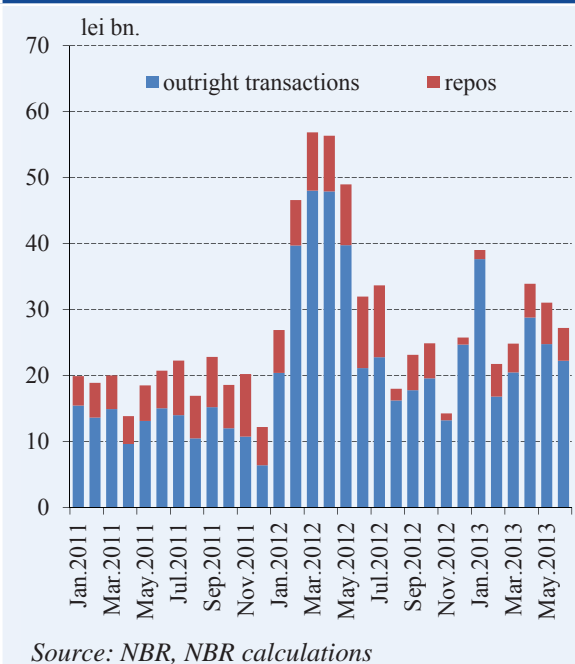
### 3.4.2. Government securities market

The term structure of the newly-issued government securities improved further in 2013 H1, as medium- and long-term bonds went up in terms of value (Chart 3.85.). The marked decline in the newly-floated Treasury certificates with maturity of up to one year is in line with the fiscal consolidation, which took some pressure off the government budget in the short run.

**Chart 3.85. Breakdown of government securities issuance by maturity (M)**

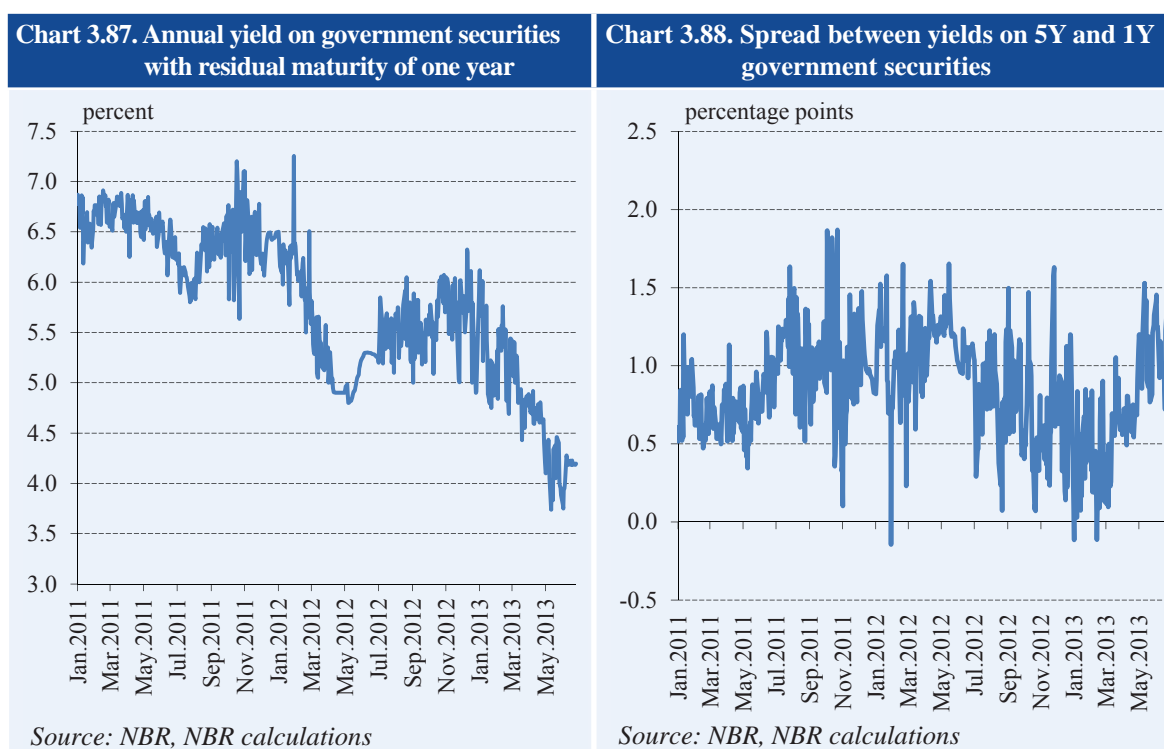


**Chart 3.86. Transactions in government securities on the interbank secondary market**

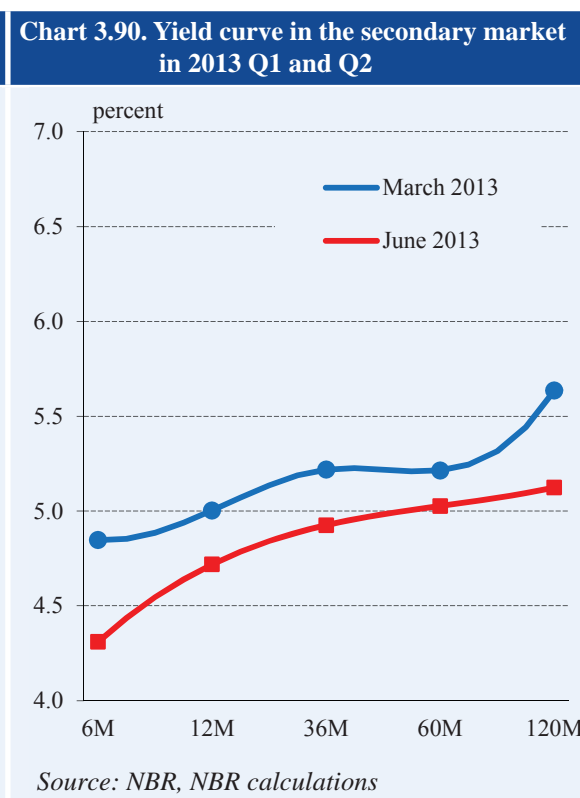
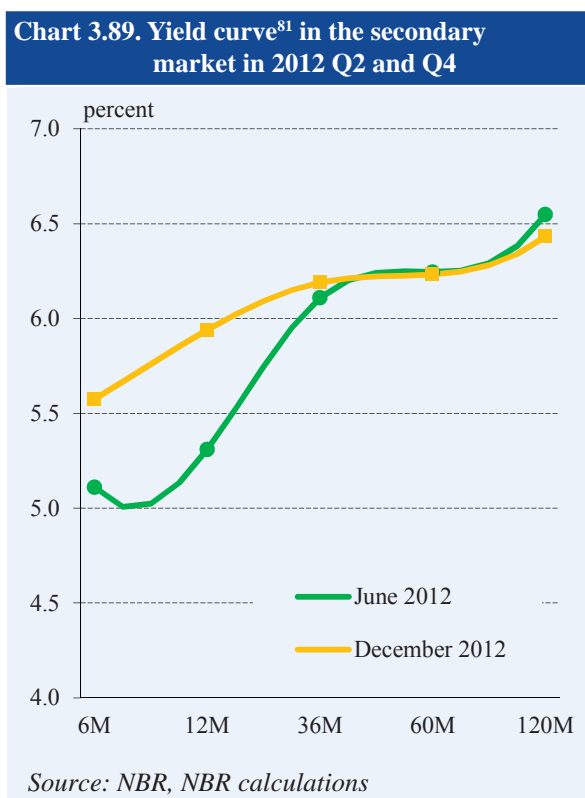


Traded volumes in the secondary interbank market for government securities dropped sizeably in 2012 H2, but rebounded somewhat in 2013 H1 amid the stabilising state-of-affairs in Romania and growing non-resident investor interest in local government bonds. In January 2013, traded volumes surged once JP Morgan announced its decision to include Romanian bonds in the GBI-EM global index, while Barclays Capital subsequently included these securities into its EM Local Currency Government Index (Chart 3.86.). Government securities are also traded on the Bucharest Stock Exchange, but here traded volumes account for less than 1 percent of the secondary interbank market turnover.

The relatively favourable domestic and external environment, coupled with adequate bank liquidity and the inclusion of Romanian government bonds into JP Morgan and Barclays Capital indices for local currency-denominated bonds issued in the emerging economies helped narrow the yields on government securities starting January 2013 (Chart 3.87.). The spread between yields on 5Y and 1Y securities widened in 2013 H1, partly accounting for the increase in the average maturity of government bond issues (Chart 3.88.).



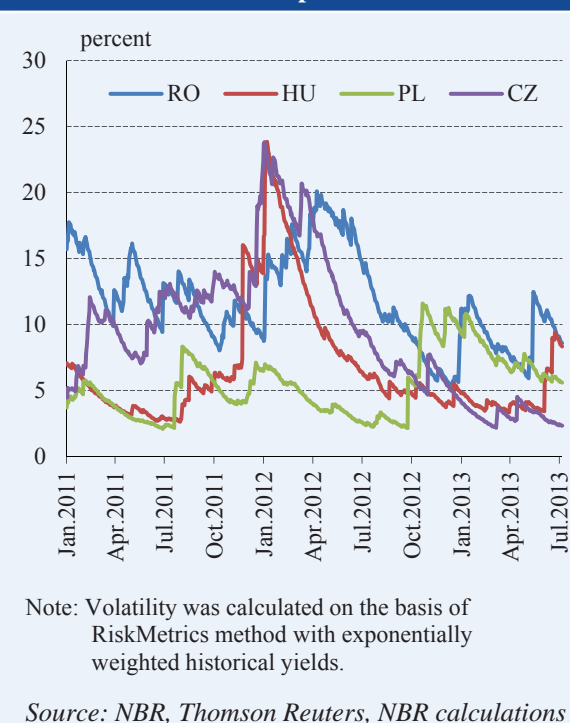
The downward trend in yields on government securities was relatively proportional over the entire yield curve (Charts 3.89. and 3.90.). Thus, at the end of 2013 Q1 the average monthly yield on government securities with residual maturity of one year contracted from December 2012 by approximately 0.94 percentage points and the average monthly yield on government securities with 10Y residual maturity declined by about 0.8 percentage points, but in the following months the speed of adjustment of these yields slowed, dropping by 0.3 percentage points and 0.5 percentage points respectively.



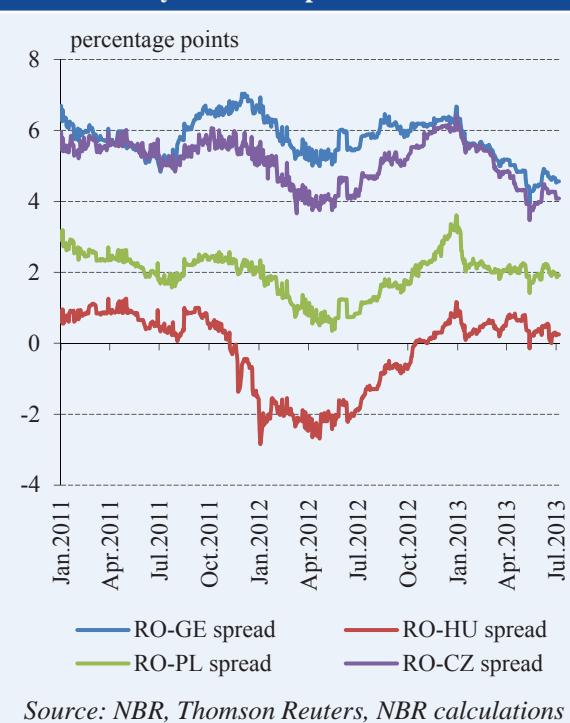
Yields on Romania’s government securities are among the most volatile across the region (Chart 3.91.). The local market saw two major periods of elevated volatility in the past few months, namely January 2013 when non-resident investors showed a stronger interest in the Romanian government bonds and the period May-June 2013 characterised by substantial capital outflows from the emerging markets for fear of a relatively fast and large-scale implementation of the Fed’s tapering-off of its quantitative easing in the USA. The yield on Romania’s government securities is also among the highest in the region, whereas the spread between local bonds and those issued by other CEECs remained unchanged or even improved slightly during 2013 H1. At mid-2013, the yield on Romania’s 1Y government securities stood by approximately 4 percentage points above those on the German Bunds (Chart 3.92.).

<sup>81</sup> In order to estimate the yield curve, the transactions in lei-denominated government securities on the interbank secondary market were used. Their yield was directed towards various maturity buckets, depending on the residual maturity of a particular security. The yield curve draws on the results of the third degree polynomial functions.

**Chart 3.91. Volatility of yields on local currency-denominated government securities issued in Central and Eastern Europe**



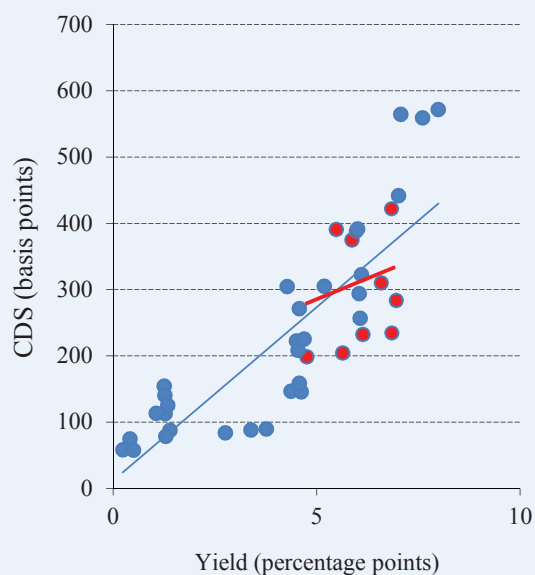
**Chart 3.92. Spread between yields on government securities in Romania and those on 1Y bonds issued by other European countries**



Yields on local currency-denominated government securities in CEECs are tightly correlated with CDS spreads on sovereign debt. The countries for which international investors perceive a stronger risk attached to these instruments provide higher yields to offset the risk premium. This relation remains strong for both short-term yields (1Y) and medium-term yields (5Y). Nevertheless, evidence shows a stronger correlation for medium-term yields on Romania's government bonds, whilst short-term yields rely to a larger extent on other factors than CDS spreads compared to other countries in the region (Charts 3.93. and 3.94.).

Yields on Romania's EUR-denominated government securities launched on the local market displayed a similar performance as those denominated in lei, staying on a downward trend in the course of 2012 and in 2013 H1. Although the volume of dealings in EUR-denominated government securities is much lower than that in local currency-denominated instruments, there is a stronger connection between CDS spreads and the yields on short-term government securities denominated in euro. The explanation for the stronger correlation may lie with the currency risk incorporated in the yields on Romania's EUR-denominated government securities, which is sensitive to sovereign risk.

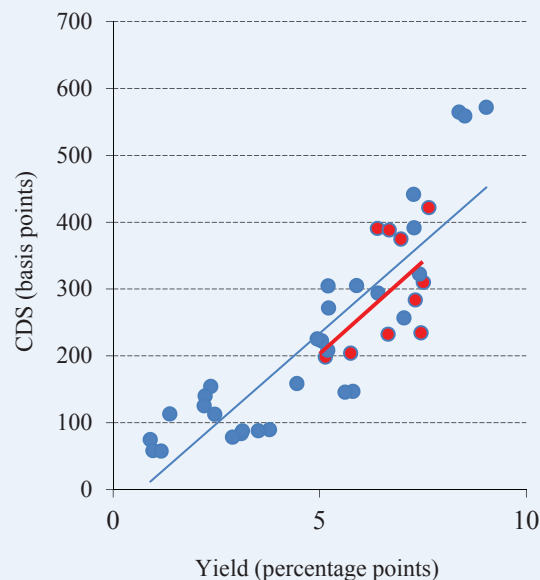
**Chart 3.93. Sovereign CDS and yields on 1Y government bonds across the region (RO, HU, PL, CZ) January 2011 through June 2013 (quarterly averages)**



Note: in blue – trend in the region (RO, HU, PL, CZ);  
in red – trend in Romania

Source: Thomson Reuters, Bloomberg

**Chart 3.94. Sovereign CDS and yields on 5Y government bonds across the region (RO, HU, PL, CZ) January 2011 through June 2013 (quarterly averages)**



Note: in blue – trend in the region (RO, HU, PL, CZ);  
in red – trend in Romania

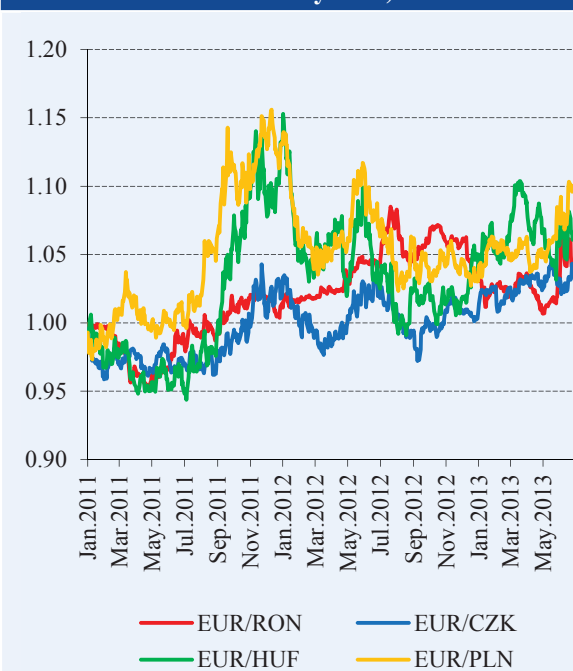
Source: Thomson Reuters, Bloomberg

### 3.4.3. Foreign exchange market

Against the background of a shift in investors' risk appetite towards Romania, the local currency was traded at historical lows against the euro in July 2012 (Chart 3.95.). The shift in risk perception was prompted by external factors such as fiscal tensions in the euro area and their negative externalities on the financial sector as well as tensions on the local political scene. A major role also played Moody's downgrading of Romania's sovereign risk outlook to negative at the end of June. From July 2012 onwards, the trend in the EUR/RON exchange rate departed from those of other currencies in the region. The completion of the electoral process, the improvement in investors' risk perception towards the Romanian financial market, together with the decline in global risk aversion and stronger non-residents' demand for local currency-denominated debt instruments, helped put the EUR/RON exchange rate onto a sharply downward path December 2012 through January 2013. The leu was relatively stable versus the euro until end-May, when global market tensions caused a significant depreciation of the Romanian currency and the major currencies in the region against the euro.

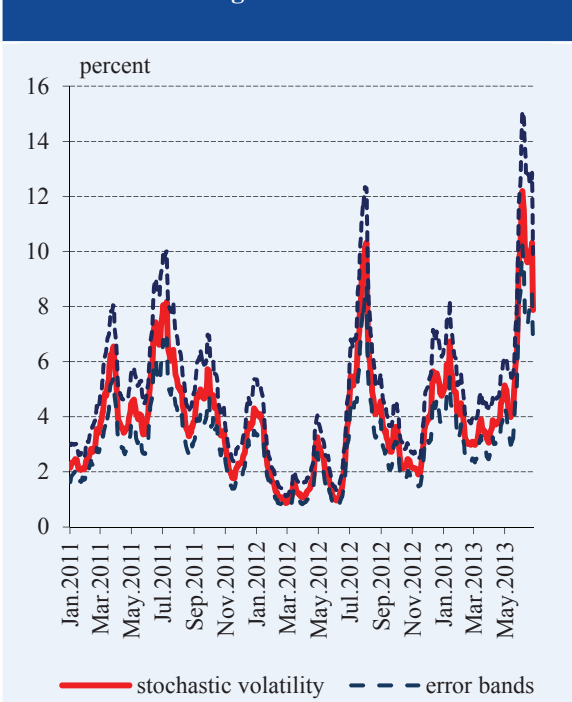
The annualised volatility of the exchange rate posted wider fluctuations in the period July 2012 – June 2013 than in January 2011 – June 2012 (Chart 3.96.). Early 2013 saw lower exchange rate volatility after the considerable strengthening of the leu to the euro at the end of 2012. Subsequently however, amid international market tensions and net capital outflows from the emerging markets, the EUR/RON exchange rate volatility increased considerably, peaking at 12.2 percent in June 2013.

**Chart 3.95. Movements in the major exchange rates across the region (reference date: 3 January 2011)**



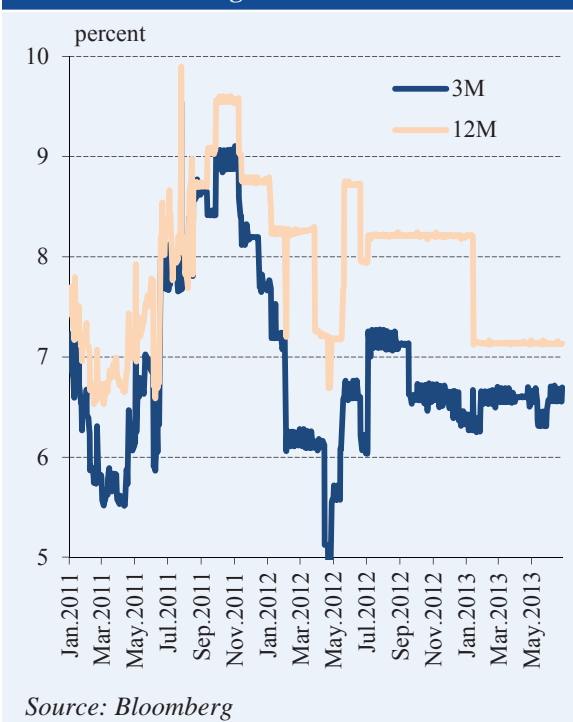
Source: Bloomberg, NBR calculations

**Chart 3.96. Stochastic volatility of the EUR/RON exchange rate**



Source: NBR, NBR calculations

**Chart 3.97. Implied volatility<sup>82</sup> of EUR/RON exchange rate**



Source: Bloomberg

Investor expectations regarding the developments in the EUR/RON exchange rate evolved differently during 2013, depending on the considered time horizon (Chart 3.97.). Therefore, implied volatility of the 3M EUR/RON exchange rate relatively flattened out in 2013 H1, except January when it contracted abruptly as a result of the leu strengthening against the single European currency. Conversely, investors viewed the period December 2012 – January 2013 when the leu appreciated against the euro as supportive of an improvement in the long-term financial and economic picture so that, after dropping sharply in January, the 12M implied volatility remained virtually flat until May. Investor uncertainty about the Fed's possible tapering-off of its quantitative easing in the USA had no bearing on any area of the implied volatility of the EUR/RON exchange rate whatsoever.

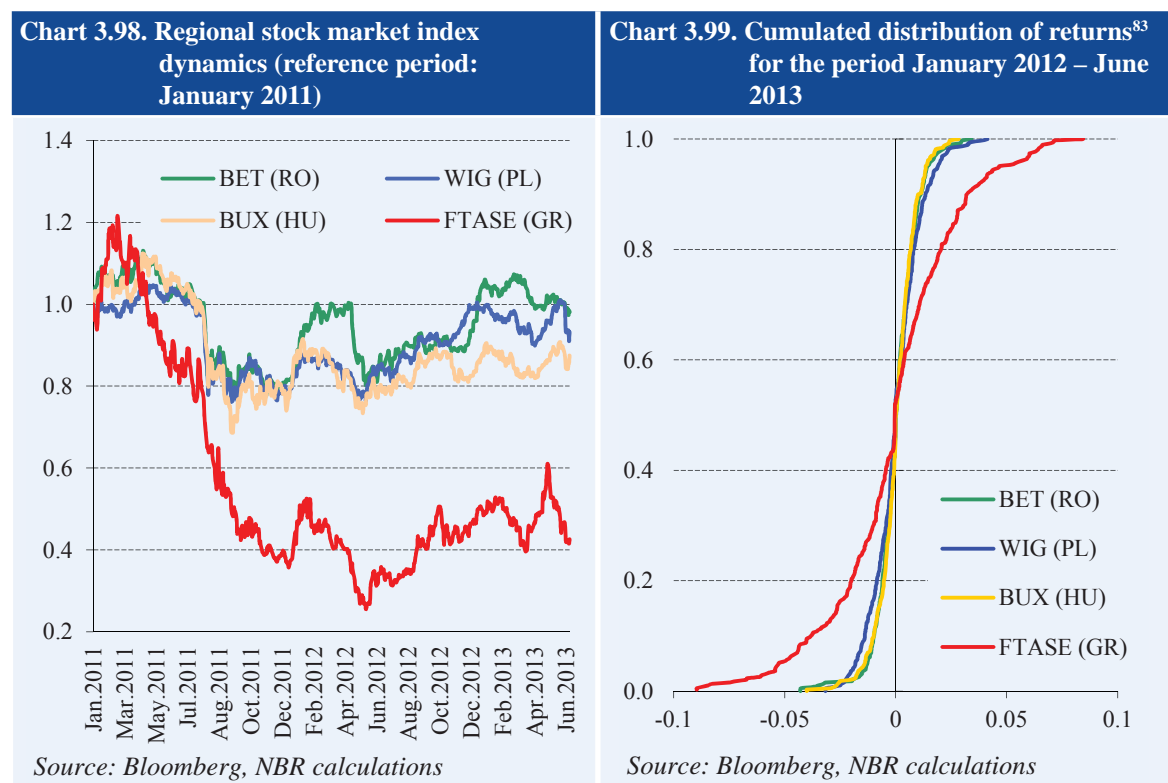
<sup>82</sup> Implied volatility is a measure of the volatility expected by investors in regard to the future exchange rate movements and is expressed as the standard deviation in annualised percentages.



### 3.4.4. Capital market

The BET index outperformed its peers across the region in the period January 2012 – June 2013 (Chart 3.98.). On the whole, major stock market indices in Romania, the Czech Republic and Poland moved in tandem, with the magnitude of fluctuations being different from one stock exchange to another, depending on the economic and financial conditions as well as the perceived country-specific risk.

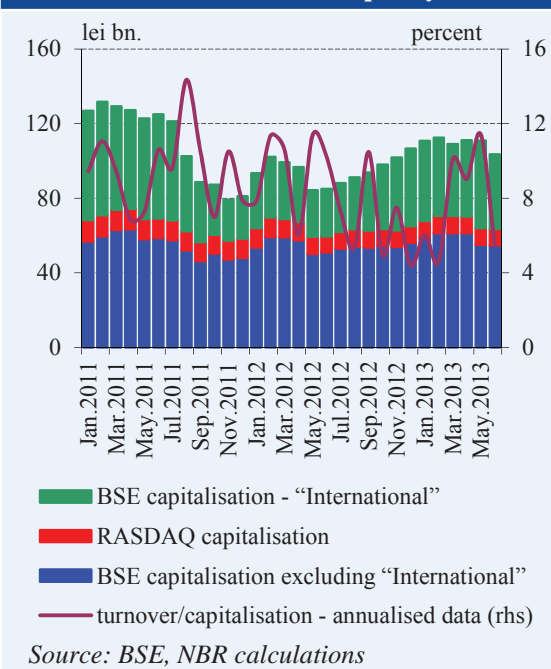
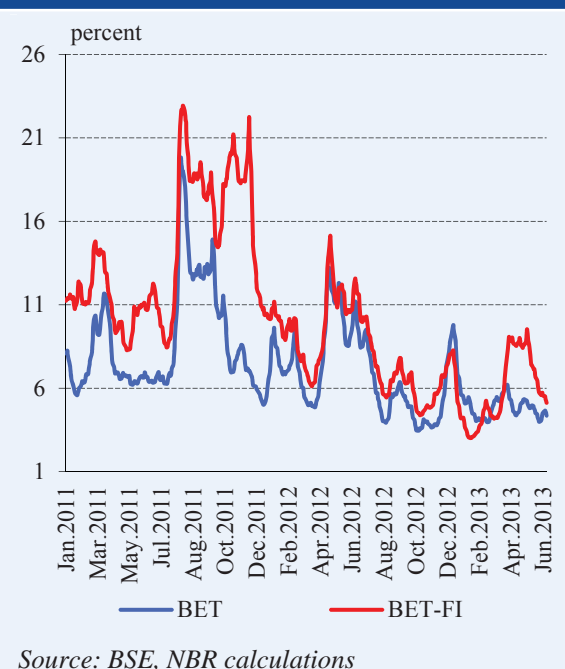
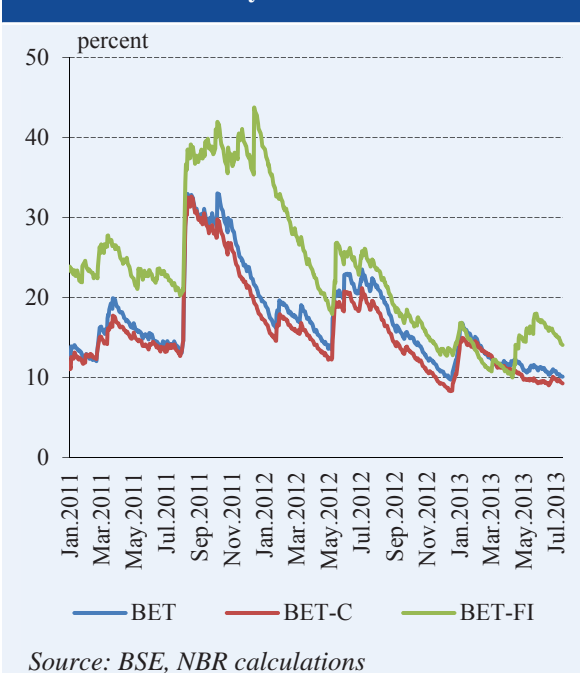
The upturn in stock market indices in the region that had begun in 2012 Q2 came to a halt in 2013 Q1. Moreover, the beginning of 2013 Q2 experienced corrections on the region's stock exchanges, due largely to the slowing US economic recovery after the release of several reports on first-quarter economic activity. Apart from the correlation of the correction of BSE indices with that in US indices, investors in Bucharest also stayed on sidelines amid low liquidity levels on a daily basis. The BET index was particularly resilient to negative shocks on the world's stock markets, as reflected in the cumulated distribution of returns (Chart 3.99.). Factors such as stronger demand for lei-denominated investments, higher-than-expected performance of some macroeconomic indicators and the ongoing fiscal consolidation also helped lift the BET index.



In the period May 2012 – April 2013, Bucharest Stock Exchange capitalisation trended slightly upwards, due to both the correlation with the positive developments on the US capital market and the improvement in investors' risk perception (Chart 3.100.). Subsequently, international market tensions brought about a decline in market capitalisation. Annualised liquidity<sup>84</sup> followed a downward drift in the course of 2012. In contrast, the onset of 2013 saw a sizeable increase in stock market liquidity, which reached a peak in May. In June 2013, wary investors caused stock market liquidity to halve.

<sup>83</sup> Cumulated probability distribution of returns in respect of four stock exchange indexes was calculated using a Kaplan-Meier estimation function. Oy axis shows figures in the [0,1] range of probability levels for which the function was estimated. Ox axis shows various readings of index returns related to probability levels.

<sup>84</sup> Monthly trades \* 12 / Market capitalisation at the end of the month.

**Chart 3.100. Domestic market capitalisation and annualised liquidity****Chart 3.101. Daily VaR for returns on BSE indices****Chart 3.102. Volatility of BSE indices**

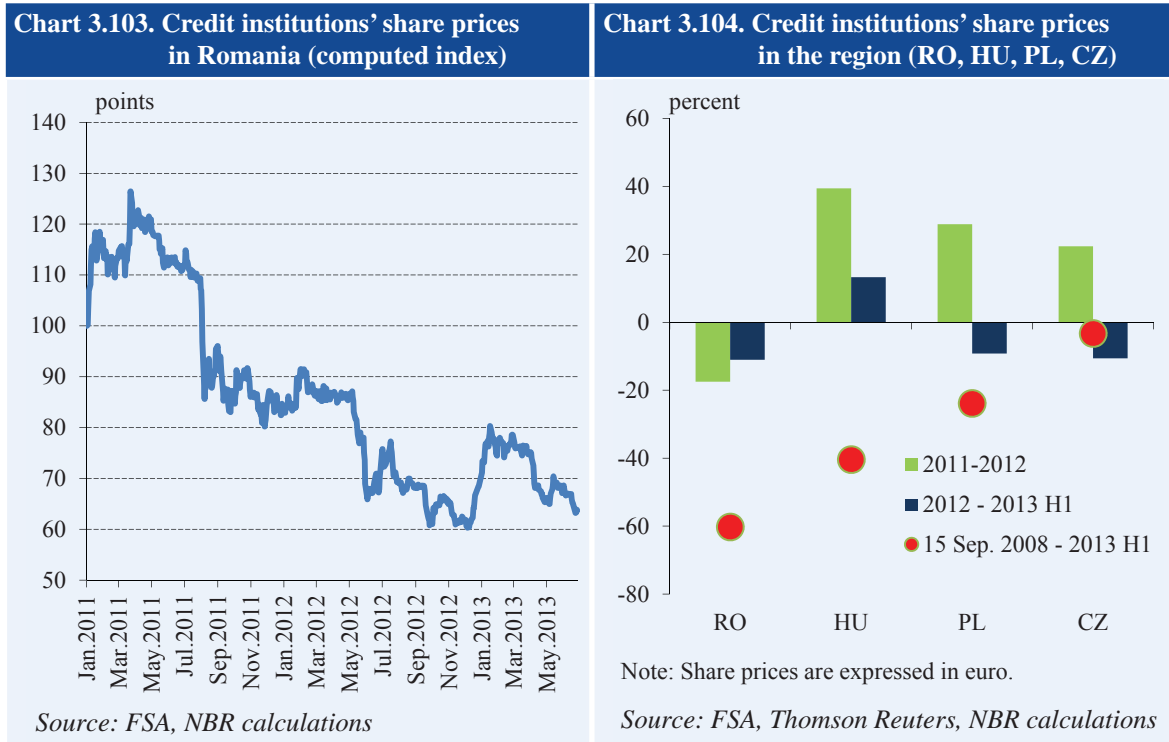
Market risk<sup>85</sup> of major stock exchange indices in Romania followed an overall downward path in the period January 2012 – June 2013 (Chart 3.101.). In 2013, fluctuations in the VaR for market risk were larger in the case of the BET-FI, reflecting investor perceptions towards riskier investments. Average VaR for 2013 H1 was below the levels recorded in 2012 and 2011, amid the shift in investors' risk appetite given the financial environment in Romania.

Capital market volatility has remained low recently, since no destabilising events were manifest either domestically or internationally (Chart 3.102.). The financial sector is the most volatile, but features the highest traded volumes. High liquidity is normally perceived as a steadying factor for stock market indices. However, as the Romanian stock exchange faces relatively low liquidity levels, volatility of the most heavily traded shares tends to grow, as

compared with that of the stocks of other listed issuers in which investors are far less interested.

<sup>85</sup> Daily VaR (Value at Risk) is estimated for a 10-day horizon and for the 99th percentile of the distribution function, in compliance with the provisions of Basel II Accord on market risk management. In this case, the highest possible loss for a 10-day horizon will most likely not exceed the daily VaR. Underlying the VaR calculation is the standard normal distribution (with the mean of 0 and variance equalling 1) and stochastic volatility relative to a data generating process comprising the first order autoregressive model for the mean equation and a geometric Brownian motion for variance dynamics.

Over the last few years, share prices of banks listed on the capital market dropped, as investors regarded the banking sector as having weaker development and profitability prospects than the economy as a whole in the short and medium term (Chart 3.103.). From January 2011 to June 2013, bank shares lost, on average, almost 36 percent, whereas the aggregate stock market index shed merely 8 percent.



The Romanian banking sector's returns on the capital market were among the lowest in the region. Even though volatility was relatively low, investors viewed the Romanian banking sector as providing weaker growth prospects than its peers in other countries in Central and Eastern Europe. Among the relevant factors stood also the much lower profitability of credit institutions in Romania. From the bankruptcy of Lehman Brothers in mid-September 2008, the event that is considered to have triggered the global financial crisis, until end-June 2013 share prices of banks listed on the BSE fell 60 percent in euro terms (Chart 3.104.).

## 4 RISKS RELATED TO DOMESTIC ECONOMIC AND FINANCIAL DEVELOPMENTS

---

### 4.1. Domestic macroeconomic developments

*The balance of risks generated by domestic macroeconomic developments improved since the release of the previous report amid the challenging external environment: domestic economic growth remained low, despite having embarked upon an acceleration trend, fiscal consolidation carried on, while external accounts witnessed a considerable improvement. An essential prerequisite in the coming years is to preserve domestic macrostability with a view to strengthening the confidence of the main stakeholders (resident and non-resident investors, consumers, the financial system, etc.) in the Romanian economy. In order to fulfil this objective: (A) structural reforms in the economy should be implemented at a faster pace, and (B) fiscal consolidation should carry on, while payment discipline should tighten for all system participants, including the authorities.*

#### 4.1.1. Real sector

Romania's economic growth was relatively modest in 2012 (+0.7 percent), markedly below potential and lower than the 2011 real GDP growth of 2.2 percent. This result was largely ascribed to the high dependence of economic growth on agricultural output developments (leaving aside agriculture's severe contraction owing to the adverse weather conditions of 2012 as well as to an unfavourable base effect, real GDP dynamics in 2012 would have been similar to those of 2011). In 2013 H1, GDP growth stood at 1.8 percent as compared to 2012 H1. The projections for the year ahead point to moderate, above EU average<sup>1</sup>, GDP dynamics, given the persistent uncertainty surrounding external economic developments. These dynamics underpin the real convergence process of income per capita in Romania towards the euro area average (Chart 4.1.), despite the only gradual narrowing of the negative output gap. The GDP dynamics sustainability is reflected by the key macroeconomic indicators remaining below the alert threshold in the European Commission's Scoreboard for the surveillance of macroeconomic imbalances (Chart 4.2.).

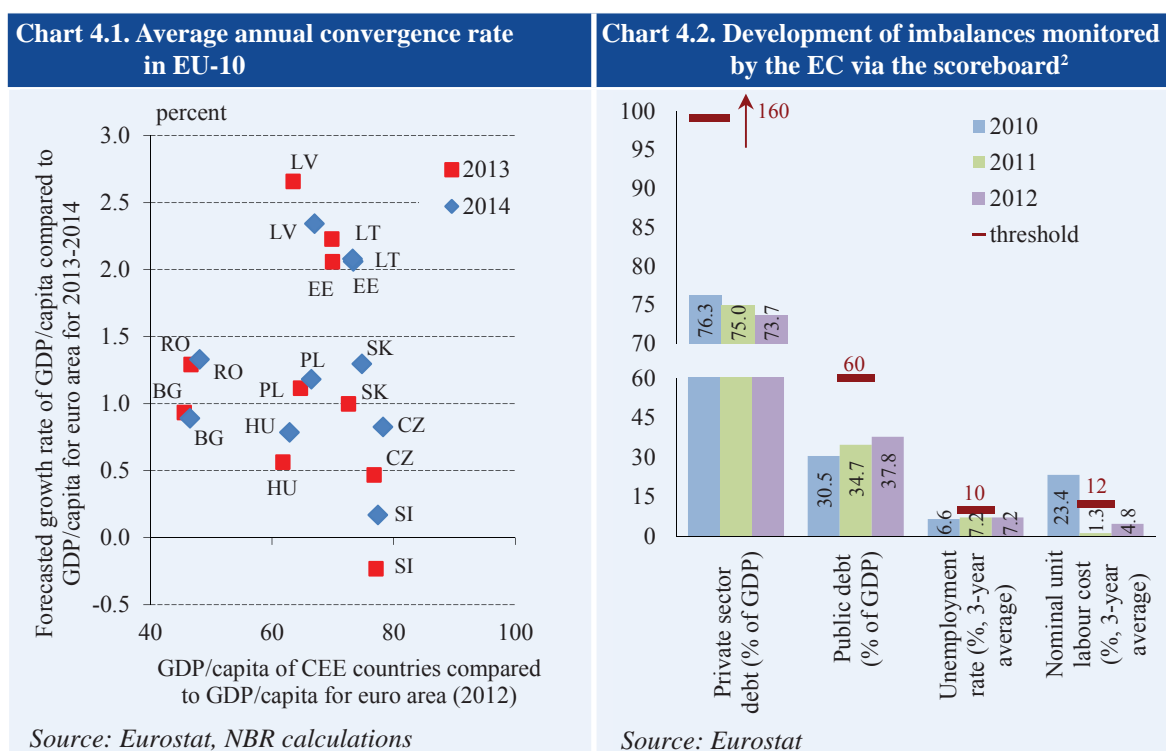
In order to maintain and consolidate domestic macrostability, it is required that: (a) structural reforms in the economy should continue at a faster pace, (b) labour market constraints should loosen, (c) the absorption rate for EU funds should increase, and (d) innovation should play a more prominent role in economic development.

(a) The main pillars of structural reforms in the economy include reforming inefficient state-owned enterprises, boosting investment and efficiency in the transport and energy sectors and implementing the reform agenda in the healthcare sector, measures that the authorities have committed to push forward in the period ahead. These measures are included in the new economic programme that is part of the 24-month precautionary financing agreement concluded in September 2013 with the European Union and the International Monetary Fund. Structural reforms concerned will also have

---

<sup>1</sup> The European Commission anticipates an economic growth of 1.6 percent for Romania in 2013 and of 2.2 percent in 2014, while the EU average is projected to stand at -0.1 percent and 1.4 percent respectively (European Commission Economic Forecast, spring 2013). The International Monetary Fund forecasts an economic growth of 2 percent for Romania in 2013 (July 2013).

a positive impact on strengthening the economy's capacity to cope with constraints, especially in the real convergence process.



(b) Labour market conditions witnessed mixed developments since the release of the previous report. The average annual unemployment rate continued to stay below the average EU values in 2012 (7 percent versus 10.5 percent in the EU), down against 2011 (7.4 percent)<sup>3</sup>. The downward trend reported throughout 2012 saw a reversal in the first months of 2013 (unemployment rate rose to 7.5 percent in August 2013), but the European Commission's forecast envisages the drop of this indicator to 6.9 percent at end-2013. The long-term unemployment rate (over 12 months) remained virtually unchanged in 2012 (3.2 percent versus 3.1 percent in 2011). Structural developments raise concerns: against the backdrop of the aging population process, the labour force participation rate is further low. The employment rate of the population aged 20-64 was 63.8 percent in 2012. This rate, albeit on the rise against the preceding year (62.8 percent), is markedly below the EU average (68.5 percent) and far below the domestic target of the Europe 2020 Strategy (70 percent). The employment rate among young people aged 15-24 remains low (23.9 percent), below the EU average (32.9 percent), one of the lowest readings among the EU-10 countries.

(c) Romania's EU fund absorption rate stood at 11.5 percent at end-2012<sup>4</sup>. In 2013, this indicator saw an improvement (21.9 percent in August 2013), remaining however low. Romania received additional EU funds available for 2014-2020, amounting to EUR 39.3 billion, of which EUR 21.8 billion from Structural and Cohesion Funds. By comparison, in 2007-2013 fiscal years, Romania received EUR 34.6 billion in funding and EUR 19.7 billion respectively. In order to improve the absorption of EU funds, the authorities launched a set of measures aimed particularly at: (i) the human and material

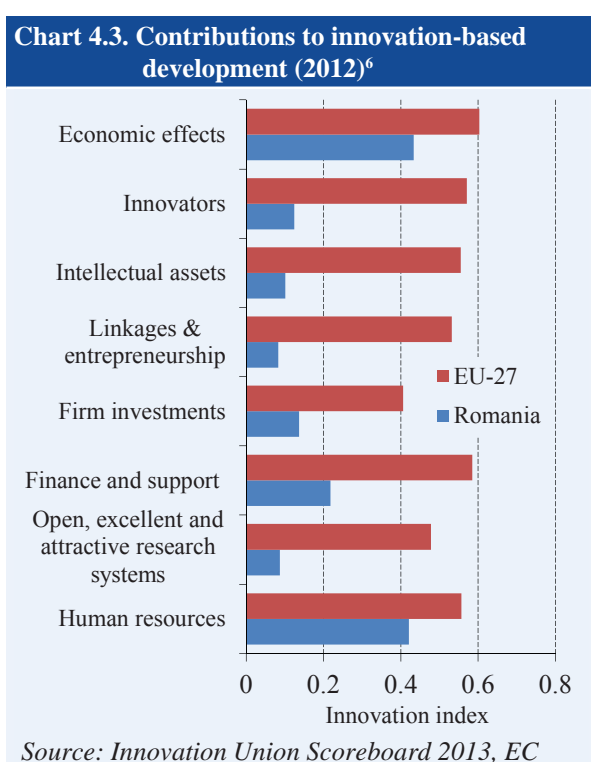
<sup>2</sup> The scoreboard is the instrument underlying the analysis of the Report on the alert mechanism that forms a component of the new framework for monitoring macroeconomic imbalances at European level.

<sup>3</sup> According to ILO (International Labour Office)

<sup>4</sup> According to the Ministry of European Funds.

infrastructure involved in this activity; (ii) the process of managing public projects eligible for EU funding; (iii) ensuring flexibility and liquidity of EU-funded projects, by granting short-term governmental loans, as increasing efforts to attract EU structural and cohesion funds is deemed a priority<sup>5</sup>.

The lower EU fund absorption rate did not weigh much on public and private investment that posted high growth rates in 2012 (+4.9 percent in real terms). The level of public and private investment in Romania remained the highest among the EU-10 countries in 2012, standing at 7.2 percent of GDP and 19.5 percent of GDP respectively in Romania versus 4.7 percent and 16.4 percent respectively, as reported, on average, by the EU-10 countries.



(d) Innovation-based economic growth is an important objective for Romania, established in the National Reform Programme 2011-2013 and in line with the Europe 2020 Strategy. Romania's target in terms of R&D expenditure is to reach 2 percent of GDP in 2020 (1 percent from public sources and 1 percent from private sources). However, Romania's performance so far is unsatisfactory, with low R&D expenditures (0.5 percent of GDP in 2011), markedly lower than the EU-10 average (1 percent of GDP in 2011). According to the data presented by the European Commission in the Innovation Union Scoreboard, Romania is part of the lowest-ranked performance group, that of modest innovators, next to Bulgaria, Latvia and Poland. Romania ranks the last in terms of R&D expenditure in the business sector, while the most significant efforts are currently geared towards training human resources (Chart 4.3.).

A recent Tax Code amendment act<sup>7</sup> encourages private sector innovation and provides for: (i) increasing the maximum deductibility threshold for tax profit calculation (from 20 to 50 percent), and (ii) expanding the scope of R&D expenditure under preferential tax treatment.

<sup>5</sup> In the National Strategic Report for 2012, Romania set out to increase EU fund absorption rates to 50-80 percent until 2015.

<sup>6</sup> According to the Innovation Union Scoreboard, the main types of indicators cover the following innovation dimensions: *Economic effects* covers sales, exports, employment in knowledge-intensive activities; *Innovators* refers to SMEs introducing product or process innovations and SMEs introducing marketing or organisational innovations; *Intellectual assets* refers to PCT patent applications, Community trademarks and Community designs; *Linkages & entrepreneurship* refers to SMEs that innovate in-house, innovating SMEs collaborating with others; *Firm investments* refers to innovation expenditure in the business sector; *Finance and support* covers R&D expenditure in the public sector and venture capital investment; *Open, excellent and attractive research systems* refers to international scientific co-publications and non-EU doctorate students; *Human resources* refers to new doctorate graduates, total population having completed tertiary education and youth having attained at least upper secondary level school.

<sup>7</sup> Government Ordinance No. 8/2013 amending and supplementing Law No. 571/2003 on the Tax Code and regulating some financial and fiscal measures.

### 4.1.2. Public sector

Fiscal consolidation – the centrepiece of domestic macrostabilisation – carried on in 2012 and in the first months of 2013. The general government deficit narrowed to 2.9 percent of GDP (according to ESA95 methodology) in 2012 versus 5.6 percent of GDP a year earlier. In the first eight months of 2013, this indicator stood at 1.27 percent of GDP versus 1.17 percent of GDP in the same year-ago period (national methodology). For 2013, the government envisages to bring the deficit down to 2.4 percent of GDP (according to ESA95 methodology), or 2.3 percent of GDP (according to national methodology), in line with the expectations<sup>8</sup>. The fulfilment of commitments taken under the financing arrangement signed with the international financial institutions led to the narrowing of the budget deficit below 3 percent of GDP in 2013 and, as a result, the EU Council approved the abrogation of the excessive deficit procedure for Romania in June 2013<sup>9</sup>.

Structural budget deficit showed the same tendency, narrowing to 2.7 percent of GDP in 2012 from 4 percent of GDP in 2011, and the forecasts indicate further decline to 1.7 of GDP in 2013<sup>10</sup>. Structural fiscal deficit dynamics are consistent with Romania's commitments to ensure a long-term sustainable policy, envisaging a 1 percent of GDP structural deficit target as of 2014, in line with the framework for ensuring economic governance at EU level, maintaining macrostability and encouraging economic growth. In order to fulfil this objective, specific and detailed measures were established in the fiscal-policy strategy<sup>11</sup>.

Public finance sustainability is reflected by the developments in and composition of public debt. First, the public debt-to-GDP ratio has remained well below the 60 percent reference value in the Treaty on European Union and one of the lowest readings across the EU. The upward trend of this indicator, manifest since 2008, saw a reversal in the first part of 2013, public debt declining from 37.8 percent of GDP in 2012 to 37 percent of GDP in May 2013 in ESA95 terms (Chart 4.4.).

Second, the changes that occurred in the composition of public debt since the release of the previous report strengthen the authorities' capacity to cope with adverse developments: (i) in 2012, the Romanian government started to issue USD-denominated bonds, thus diversifying its investor base (these bond issues currently account for 7.4 percent of total public debt); (ii) the maturity breakdown remains comfortable (the share of medium- and long-term debt widened to 85 percent of total debt in 2012 and 92 percent in May 2013, from 77 percent in 2011); (iii) the share of lei-denominated public debt remains elevated at 41 percent in May 2013, down slightly against 2011, and (iv) the bulk of sovereign debt is held by residents. Non-resident investors' participation in the domestic market for government securities (in lei and euro) went up sharply in 2012 and the first seven months of 2013 (these investors accounted for 24.5 percent of the securities outstanding at end-July 2013, compared with 14 percent at end-2012 and 11.7 percent at end-2011). Although on an upward trend, the share of non-residents' holdings in total government securities on the domestic market remained well below

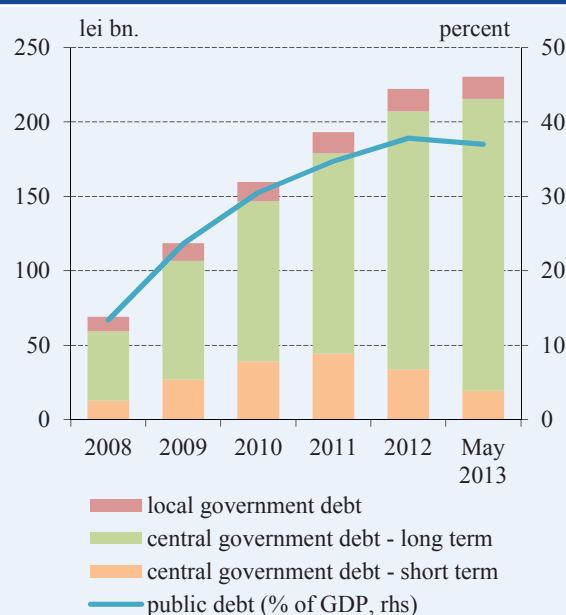
<sup>8</sup> The European Commission anticipates a fiscal deficit of 2.6 percent of GDP (European Economic Forecast, Spring 2013).

<sup>9</sup> Concurrently with the statement released on Romania, the EC Council announced the abrogation of the excessive deficit procedure for Italy, Latvia, Lithuania, and Hungary, following its June 2013 decision to extend this procedure for Spain, France, the Netherlands, Poland, Portugal and Slovenia. Romania entered the excessive deficit procedure in 2009.

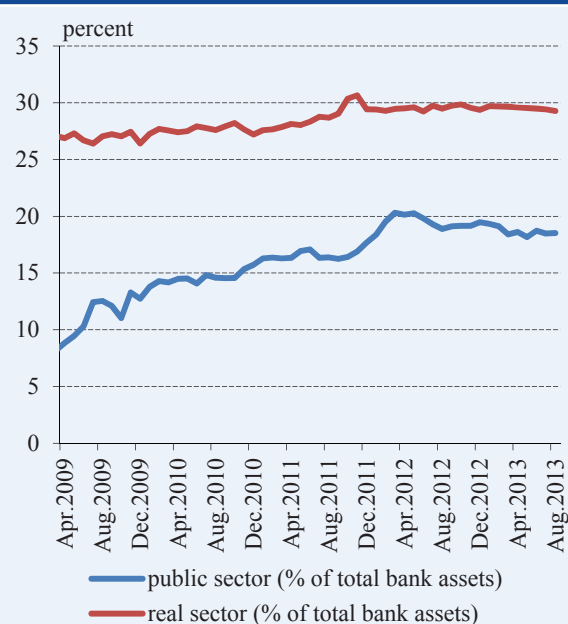
<sup>10</sup> European Commission Economic Forecast, Spring 2013.

<sup>11</sup> The objectives regarding fiscal policy, agreed upon with the signature of the Fiscal Compact, are implemented into the national legislation by the Fiscal Responsibility Law No 69/2010 regulating the fiscal policy strategy. This strategy establishes quantitative targets for a future three-year period that are implemented under additional laws and submitted for analysis to the Fiscal Council (Law No 4/2013 approving ceilings for indicators mentioned in the fiscal policy framework, as later amended, establishes targets for 2013 and 2014).

the levels seen in other countries in the region (53 percent in Hungary and 36 percent in Poland, in July 2013). The increased volume of non-residents' holdings of leu-denominated government securities may heighten exchange rate volatility, negatively impacting on inflation and interbank market rates, given potential significant capital outflows from the domestic market. Among resident entities, the Romanian banking sector is the leading finance-provider of the government sector. This reiterates the importance of continuing the fiscal consolidation process, so as to avoid the crowding-out of the private sector in the future, given that the loan demand from non-financial corporations and households is to be resumed, while the deleveraging process will squeeze the banks' funds available for lending (the share of government exposures in the banks' balance sheets stood at 18.5 percent in August 2013, up 0.8 percent against December 2011, Chart 4.5.).

**Chart 4.4. Public debt and its composition**


Source: MPF, NIS

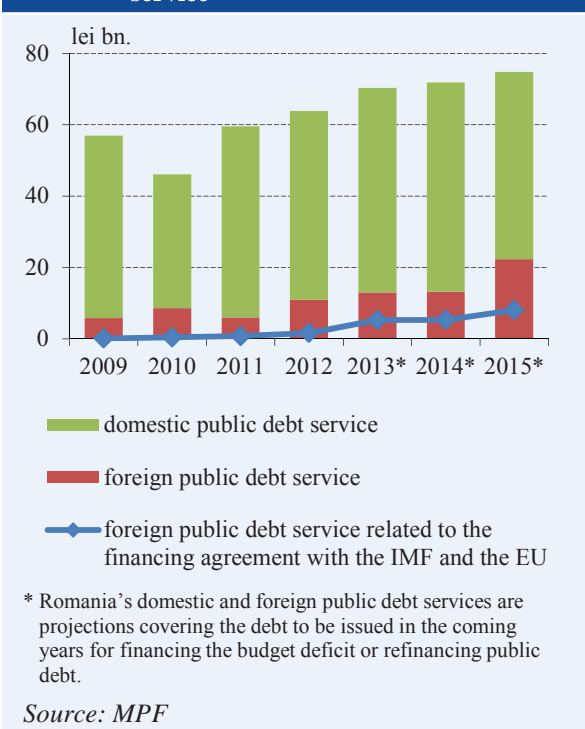
**Chart 4.5. Bank lending to the public and non-financial corporate sectors**


Source: NBR

Third, with a view to avoiding any pressures stemming from the volatility of financing conditions, the Romanian government moved to establish a foreign currency fiscal buffer as early as 2010, so that budget financing requirements are met for a period of at least four months. The government intends to preserve it in the years ahead as well.

Therefore, even amid the rise in external debt service in 2013-2015, due to repayments of loans taken from the EU and the IMF in the previous years (Chart 4.6.), the public debt service puts forward a sustainable profile. In order to preserve the results gained in recent years in terms of fiscal consolidation and public debt management, the authorities undertook to carry on with the measures designed to: (i) adjust and streamline budget expenditures; (ii) consolidate revenues and cut tax evasion; (iii) maintain the fiscal buffer so as to cover financing needs for a four-month period, and (iv) move to a multiannual budgetary framework. In order to increase the efficiency of tax collection, corroborated with the fight against tax evasion, Romania, in partnership with the World Bank, has launched a project for modernising fiscal administration.



**Chart 4.6. Projection on the government debt service**

A significant issue that is still to be resolved refers to the level of overdue debts incurred inter alia by the central and local governments, as well as by state-owned companies. The stock of government arrears (mostly pertaining to the local governments) stands at 0.14 percent of GDP, and the stock of state-owned companies' arrears stands at 2 percent of GDP (December 2012).

With a view to gradually strengthening the budget discipline of the local governments<sup>12</sup>, the government amended the insolvency procedure for administrative and territorial subdivisions in 2013. Total debt of Romania's local governments<sup>13</sup> amounted to lei 14.9 billion (around 2 percent of GDP) in May 2013, slightly down from 2012 (by approximately 1 percent, according to ESA95 methodology). The banking sector ensured financing for over 60 percent of the domestic public debt (lei 9.3 billion in August 2013), mainly by long-term loans.

Exposure to local governments is concentrated in a small number of banks (five banks hold roughly 90 percent of this debt), but average exposure in total bank assets is relatively low (around 2.4 percent in August 2013).

## 4.2. Corporate and household lending

The challenges to the sustainable resumption of corporate and household lending resemble those detected in the previous report and those in several EU Member States, stemming mainly from: (A) the orderly progress in deleveraging, (B) the maintenance of the recent trends in terms of more balanced developments in new loans by currency, and (C) the consolidation of favourable structural changes in lending to non-financial corporations. In Romania, deleveraging unfolded in an orderly manner, yet at a faster pace, having resulted so far mostly in adjustments: banks' reliance on foreign financing has gradually declined, the relatively high degree of household indebtedness has inched down, while the business sectors with the potential to sustainably change the growth pattern for the Romanian economy have generally received additional funding compared to the other sectors.

(A) Total corporate and household loans<sup>14</sup> fell slightly (down 0.8 percent December 2011 through June 2013), amounting to around EUR 73 billion (Chart 4.7.), amid concerns regarding balance sheet adjustment coming from both funding supply and demand. Foreign financial institutions were the

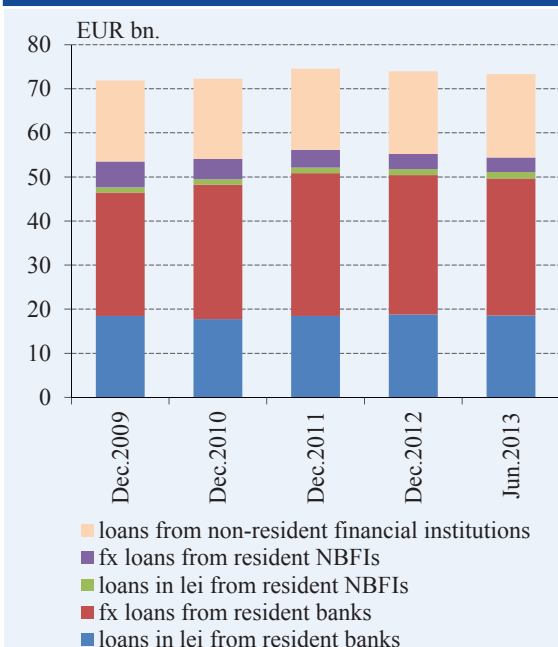
<sup>12</sup> Government Emergency Ordinance No. 46/2013 on the financial crisis and the insolvency of administrative and territorial units.

<sup>13</sup> Ministry of Public Finance.

<sup>14</sup> Total loans include financial loans from domestic and foreign financial institutions (banks and NBFIs). Likewise, in Chapter 4.2. "Corporate and household lending", the dynamics of lending are calculated by adjusting the nominal balance of foreign currency-denominated loans for exchange rate changes, unless otherwise specified.

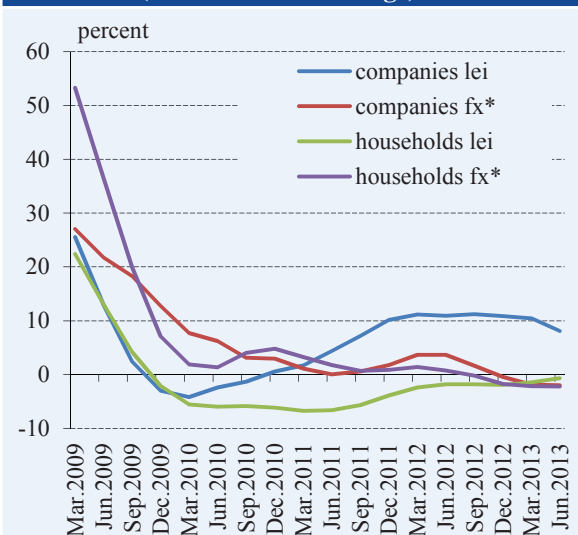
sole category of creditors that decided to increase their exposure to the domestic private sector<sup>15</sup>, i.e. up 2.9 percent in the period December 2011 – June 2013. Although domestic banks and NBFIs further extended loans to certain economic sectors, their total lending to the private sector declined as a whole (down 1.2 percent in the case of banks and 9.9 percent in that of NBFIs in the same period, with values adjusted for exchange rate changes<sup>16</sup>). In June 2013, the ranking of the financial creditors of companies and households revealed that their debt was held as follows: over two thirds (67.7 percent) – resident banks, roughly a quarter (25.8 percent) – foreign creditors and the rest (6.5 percent, i.e. half of the 2008 figure) – resident NBFIs. The breakdown by currency shows that only lei-denominated loans to companies witnessed positive annual growth rates in nominal terms, whereas foreign currency lending posted negative dynamics as of the latter half of 2012 (Chart 4.8.).

**Chart 4.7. Total corporate and household loans by creditor and currency**



Source: NBR, NBR calculations

**Chart 4.8. Growth rate of total loans granted to companies and households by domestic and foreign financial institutions (nominal annual change)**



\* series adjusted for exchange rate changes

Note: Series are calculated as a 3-month moving average.

Source: NBR, NBR calculations

The developments in funding supply for the domestic private sector rely on the pace of deleveraging at EU level. The European banking groups further evinced a trend towards deleveraging, taking measures to scale down their assets as of the latter half of 2012, after they had reduced the leverage ratio mainly via increased capitalisation. There are heterogeneous estimates on the magnitude of future deleveraging in the case of large European banking groups: the IMF<sup>17</sup> forecasts around USD 1.5 trillion in 2012 Q4 – 2013 Q4, while the ECB<sup>18</sup> forecasts range between EUR 20 billion and EUR 1.3 trillion in 2013-2014.

<sup>15</sup> In this subchapter, private sector shall refer to non-financial corporations and households.

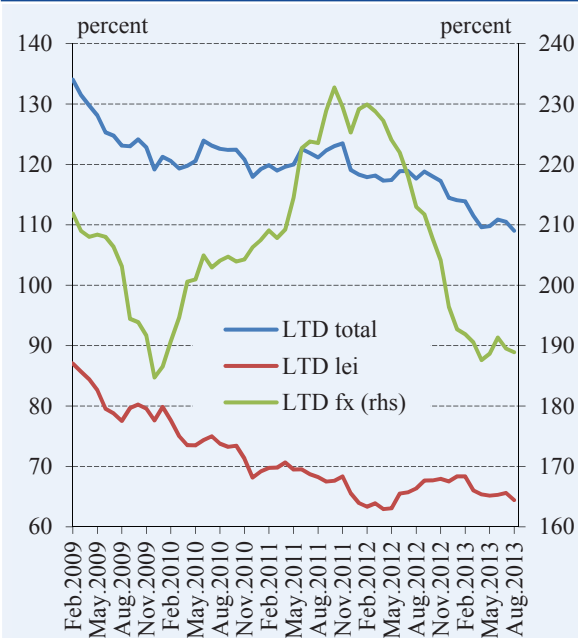
<sup>16</sup> In nominal terms, domestic banks increased their loans to companies and households by 0.8 percent December 2011 through June 2013, while domestic NBFIs reduced this exposure by 7.7 percent in the same period.

<sup>17</sup> IMF, *Global Financial Stability Report*, April 2013.

<sup>18</sup> ECB, *Financial Stability Review*, May 2013.

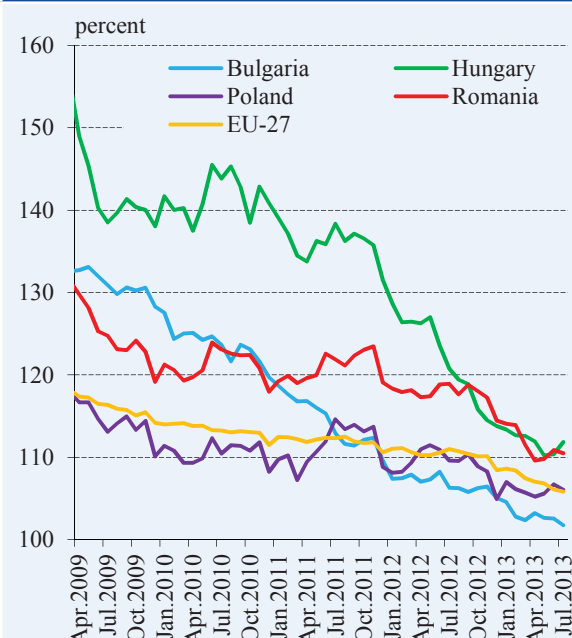
These developments across the European banking sector had a mixed impact on Romanian entities: European banks' exposures to the domestic non-financial private sector continued to rise, whereas those to the Romanian banking sector decreased. December 2011 through August 2013, domestic banks' funding from parent banks (accounting for over 80 percent of their foreign financing) lost 26.2 percent. Domestic banks altered their business model with respect to their funding structure in order to offset the aforementioned decline, causing their reliance on foreign sources (foreign financing as a share in total assets) to adjust from 26.5 percent to 21.4 percent in the period December 2011 – August 2013. At the same time, banks tapped domestic resources to a larger extent, thereby partly making up for the foreign financing withdrawal. This led to an improved loan-to-deposit ratio for the non-government sector, i.e. from 119.1 percent in December 2011 to 109 percent in August 2013 (Chart 4.9.), pressing however domestic saving, which can increase only gradually, over a longer-term horizon.

**Chart 4.9. Loan-to-deposit ratio for the non-government sector by currency**



Source: NBR, NBR calculations

**Chart 4.10. Loan-to-deposit ratio for the non-government sector – regional comparisons**



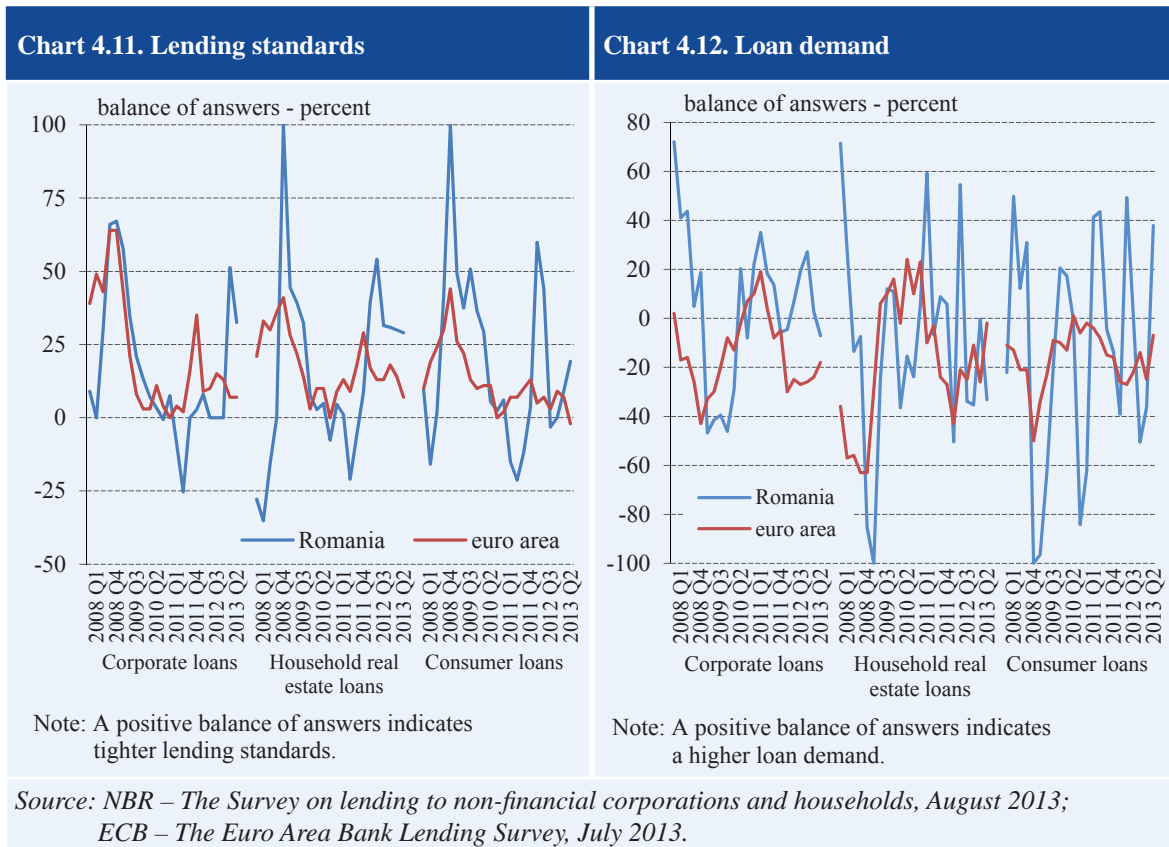
Source: ECB, NBR calculations

The adjustment of the loan-to-deposit ratio of the Romanian banking sector is in line with regional developments (Chart 4.10.) and will most likely carry on, as the indicator ranks among the highest in the region, i.e. 110.5 percent versus the EU average of 105.8 percent, in July 2013. The loan-to-deposit ratio in the EU may remain on a downtrend over the medium term, as supported by the previous experiences with global banking crises. Under the circumstances, the change in the management of financial resources within banking groups through the increased focus on domestic funds for the extension of new loans is beneficial to financial stability in host countries in the long run, but its implementation should proceed gradually and take into account that the volume of funds that can be raised on the domestic market is limited, given the relatively low domestic saving. Reducing the mismatch between loans and deposits via host-country banks keeping higher than usual deposit rates may impact lending through the relative rigidity of interest margins, which limits the downward adjustment of interest rates on new loans.

December 2011 through August 2013, at the level of the domestic banking sector the adjustment of the loan-to-deposit ratio did not entail any significant constraints in terms of deposit rate-related costs. The LTD ratio declined largely on the back of the foreign currency component (from 225.3 percent to 188.9 percent in the period December 2011 – August 2013), whereas the lei-denominated component witnessed a marginal drop (from 65.6 percent to 64.4 percent in the same period). The improved ratio owes particularly to the higher volume of deposits raised (up 8.7 percent in December 2011 – August 2013) and, to a lower extent, to a contraction in the loans granted (down 0.5 percent in nominal terms during the same period).

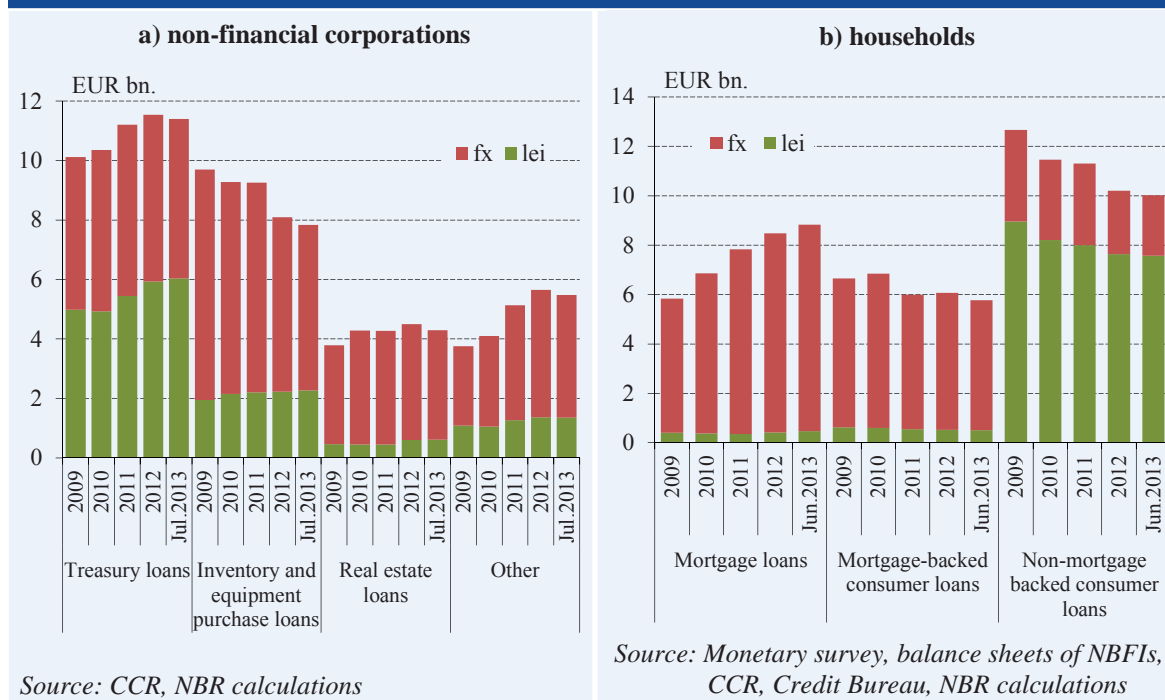
The demand for loans saw the same efforts towards balance sheet adjustment as well. Both companies and households are in a stage characterised by lower appetite for taking on new debt by the time they repay, to a certain extent, that already incurred. Households show a relatively high degree of indebtedness and currently grapple with difficulties servicing their debt following last years' euphoria over taking loans. This is all the more so as many of the goods purchased by credit are worth far less than the debt still to be repaid. The collateral used also posted an unfavourable development from the point in time when the loans were granted, as it is mostly real estate collateral, being impacted by price adjustments (for further details, see Chapter 5.2. "Risks stemming from the households' sector"). As for non-financial corporations, although the indebtedness situation is more nuanced, the substance of the matter may remain the same. The degree of indebtedness of Romanian companies saw a steadfast increase since the outbreak of the crisis and certain business sectors incurred significant debt (as a share in equity). Moreover, certain companies tend to manage their debts by implementing measures to the detriment of creditors, either because of their being constrained by the currently unfavourable circumstances or in a deliberate manner (for further details, see Chapter 5.1. "Risks generated by non-financial corporations").

The efforts of loan demand and supply towards balance sheet adjustment are directly reflected by lending. Thus, the loan supply conditions have tightened since the release of the previous report in the case of both companies (as of 2013 Q1) and households, in line with similar developments in the euro area (Chart 4.11.). Banks account for the tighter lending standards for companies through the significantly higher credit risk and, as of 2013 Q1, through the NBR's decisions related to Regulation No. 17/2012 on certain lending conditions that included the recommendations made by the European Systemic Risk Board on foreign currency lending to unhedged borrowers. Loan demand from households remained usually in the negative territory during 2012 and in 2013 H1, in line with the ongoing deleveraging mentioned as a trend in the previous Financial Stability Reports, whereas that from companies reported a slight rise, especially with respect to short-term loans (Chart 4.12.).



(B) The large stock of foreign currency-denominated loans is a vulnerability of the domestic banking sector originating particularly in the lending boom, but which has started to lower. An analysis of the destination of foreign currency loans explains corporate and household indebtedness behaviour to a certain extent, as the aforementioned loans were mostly real estate loans in the case of both sectors (Chart 4.13.). Prospects are for the stock of foreign currency-denominated loans to continue to decline, concurrently with the rise in the lei-denominated one. Since the release of the previous report, fewer foreign currency loans were granted, so that the share of new EUR-denominated loans extended by domestic banks narrowed to 44.7 percent in 2012 and to 39.1 percent of the new total flow of loans to companies and households in January-August 2013 (versus 52.5 percent in 2011). These trends supported the adjustment of the share held by foreign currency loans in the stock of corporate and household loans to 62.3 percent in August 2013 from 63.7 percent in December 2011. Nevertheless, Romania further ranks among the EU Member States with higher levels of foreign currency lending, together with Latvia – over 80 percent, Lithuania – over 70 percent, Bulgaria – around 64 percent and Hungary – about 54 percent.

Chart 4.13. Loans granted by domestic banks and NBFIs by destination and currency



The enforcement of the NBR Regulation on loans to households<sup>19</sup> as of October 2011 also contributed to the more balanced developments in new loans by currency. The flow of new EUR-denominated loans shrank: (i) considerably in the case of consumer loans (from 35.7 percent in 2011 to 17.1 percent in 2012 and 10.3 percent in January-August 2013) and (ii) to a lesser extent when looking at housing loans (from 97.8 percent in 2011 to 91.9 percent in 2012 and 86.4 percent in January-August 2013). The implementation of the “First Home” programme solely for lending in domestic currency as of the closing period of 2013 and the lower interest rates on lei-denominated credit, also in response to the central bank’s decisions to cut the monetary policy rate by a cumulated 100 basis points July through September 2013, are likely to help improve, in time, the currency composition of housing loans as well.

Foreign currency lending also accounted for a decreasing share in the total flow of new loans to companies (42.7 percent in 2012 and 36.2 percent in January-August 2013 versus 51.2 percent in 2011). This trend is expected to continue amid the introduction of a 2012 NBR regulation<sup>20</sup> on foreign currency lending to unhedged non-financial corporations that shall apply to all credit institutions and NBFIs, Romanian legal entities (registered with the Special Register), as well as to foreign bank branches. The said regulation specifies that foreign currency-denominated loans and loans indexed to an exchange rate shall be granted only to the extent that, in accordance with the criteria laid down in creditors’ own regulations, companies evince a good repayment capacity of foreign currency credit, even if the currency their income is denominated in or indexed to witnesses a sharp depreciation or the lending rate increases, respectively.

<sup>19</sup> NBR Regulation No. 24 of 28 October 2011.

<sup>20</sup> NBR Regulation No. 17 of 12 December 2012.

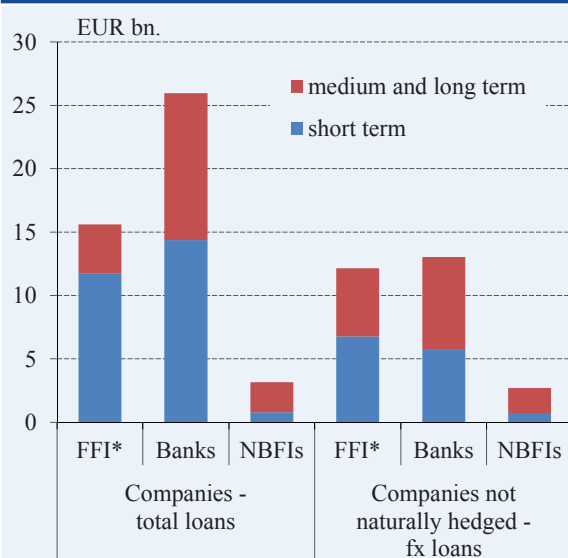
The measures taken by the NBR with respect to corporate lending are warranted by both the level of risks associated with the foreign currency loan portfolio and the need of harmonisation with the best practices related to financial stability that were set forth within the recommendations of the European Systemic Risk Board (ESRB). The volume of non-performing corporate loans in foreign currency soared 73.7 percent December 2011 through August 2013, while that of non-performing loans in lei expanded by 53 percent during the same period. After reaching 4.3 percentage points at end-2011, the gap between NPL ratios in domestic and foreign currencies was bridged in August 2013, when they came in at 23.4 percent and 23.5 percent respectively. The corporate sector is exposed to the currency risk to a significant extent as only a small number of companies derive foreign currency income from their exports. In June 2013, companies that are not naturally hedged<sup>21</sup> accounted for 93.5 percent of the companies with foreign currency-denominated loans and their foreign currency loan portfolio held 76.7 percent of total domestic and external corporate loans. Their NPL ratio is higher than both the corporate sector average, i.e. 24.1 percent versus 22 percent in June 2013, and that of naturally hedged companies (9.3 percent in June 2013), while their economic and financial performance is weaker. The credit risk of companies with loans in foreign currency is also highlighted by their high gross foreign currency position<sup>22</sup> (101.4 percent of equity in December 2012). Thus, the gross foreign currency position of unhedged companies is about three times larger than that of hedged companies, i.e. 142.7 percent against 54.3 percent in December 2012.

The NBR regulation may exert a significant impact on unhedged borrowers over the short term. Foreign currency-denominated loans with maturity shorter than one year granted to unhedged companies play an important part both in terms of volume, i.e. EUR 13.1 billion, and as a share in total loans in foreign currency (38.3 percent in June 2013, Chart 4.14.). About half of these foreign currency-denominated short-term loans are granted directly by European banks. Should these loans be rolled over still into loans in foreign currency, lending conditions need to be tighter, similar to those in the home country of the respective unhedged company (according to the ESRB recommendations). Therefore, certain conditions are in place for at least some of these companies to look for domestic currency funding from domestic banks. In addition, lei-denominated financing costs should decline given: (i) the NBR's decisions to significantly cut the monetary policy rate (by a cumulated 100 basis points since the release of the previous report), and that (ii) the risk premium set by banks for hedged borrowers should be considerably lower than that set for unhedged borrowers.

---

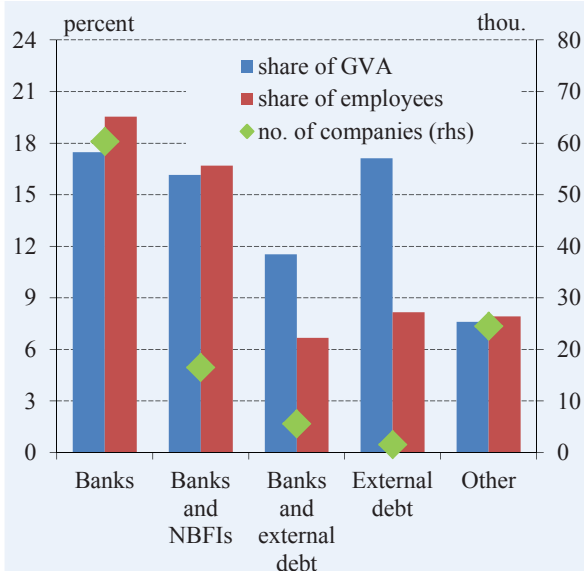
<sup>21</sup> Naturally hedged non-financial corporations were defined as the companies whose exports accounted for at least 20 percent of their currency exposure (domestic and external loans in foreign currency from banks and NBFIs). Data related to the 2012 exports and lending in June 2013 were used. All the other non-financial corporations that took foreign currency-denominated loans and do not meet this criterion are not naturally hedged companies. Nevertheless, some of them may be financially hedged via various financial instruments or contractual provisions. However, this information is not available.

<sup>22</sup> The gross foreign currency position is computed as a ratio of total loans in foreign currency (both domestic and external loans, intra-group loans included) taken by all companies to their equity.

**Chart 4.14. Foreign currency-denominated loans to companies not naturally hedged by residual maturity (June 2013)**

\* foreign financial institutions

Source: NBR, NBR calculations

**Chart 4.15. Contribution to value added and employment in the non-financial corporate sector (2012) by funding source as at June 2013**

Source: NBR, MPF, NBR calculations

(C) Along with the sustainable resumption of lending, including via more balanced loan developments by currency, (C1) an improved relationship between lending and value added in the economy and (C2) the consolidation of sustainable structural changes in banks' business model with respect to lending to non-financial corporations are also necessary.

(C1) The direct relationship between household lending and value added in the economy points to low efficiency. Consumer loans were used to purchase largely imported goods (motor cars, household appliances, etc.). As for companies, the aforementioned relationship is stronger. However, the lending structure has favoured companies in the non-tradable sectors, especially in the years of economic expansion, with loans to such companies currently holding the larger share, i.e. 65.9 percent of total loans to non-financial corporations in June 2013. Moreover, companies made low recourse to domestic bank funding in their economic activity. Thus, (i) a small number of companies had outstanding loans from Romanian banks, i.e. 13 percent of operating companies<sup>23</sup> in December 2012, and (ii) the loans from domestic banks have a low share in total funding sources, accounting for 9.6 percent of total balance sheet liabilities of non-financial corporations as compared with capital contributions from shareholders, which are almost three times larger (26.5 percent of total liabilities in December 2012). Domestic banks should play a more important role in real sector funding in appropriate conditions. In fact, non-resident creditors extended loans to companies to a larger extent than domestic banks, with the loans taken from foreign banks and parent companies amounting to EUR 36 billion (June 2013), while those from Romanian banks totalled EUR 26 billion (June 2013).

A large number of companies, i.e. around 77,000, took only domestic loans<sup>24</sup>. They account for 33.6 percent of the value added by non-financial corporations as a whole and employ 36.2 percent of

<sup>23</sup> Companies that submitted their balance sheets to the Ministry of Public Finance in 2012.

<sup>24</sup> In this chapter, companies with domestic loans shall refer to companies that took loans from domestic banks or possibly in tandem with loans from NBFIs, but not external loans or intra-group loans.



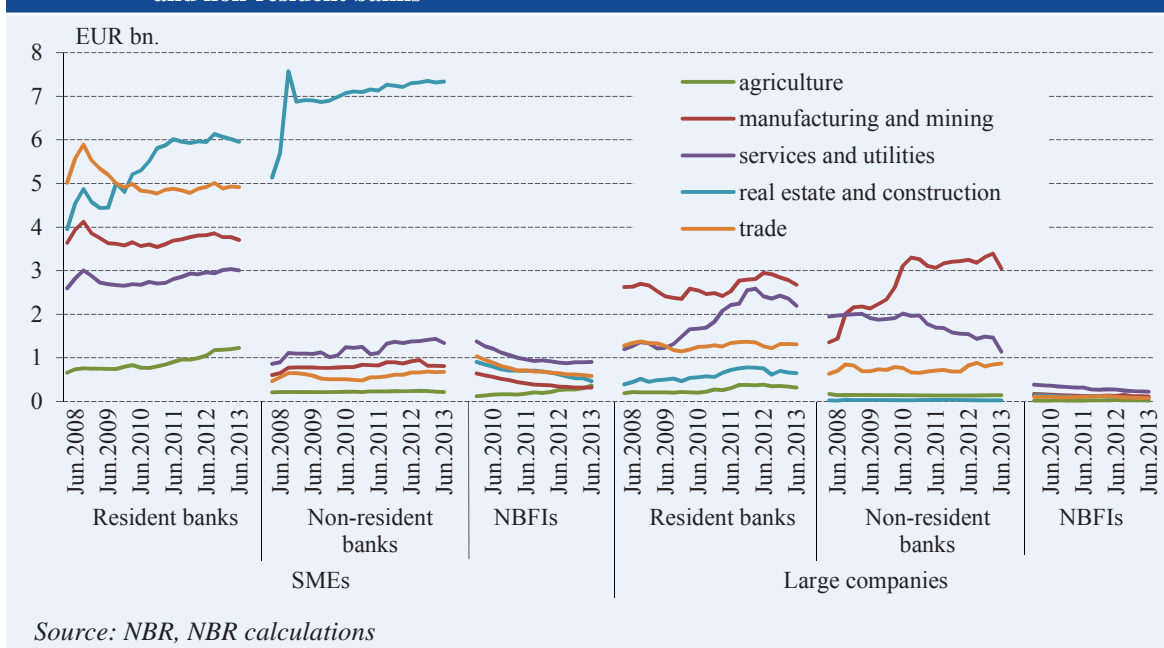
the staff in this sector (December 2012, Chart 4.15.). These companies were extended a significant stock of loans by domestic banks, tantamount to lei 89.7 billion, i.e. 77.5 percent of the balance of loans to non-financial corporations in June 2013. There are around 7,000 companies that took only external loans (from either banks or parent companies) or a mixture of foreign and domestic funding and they made a similar contribution to value added as those in the first category, i.e. 28.7 percent of total value added, employing however less than half of the latter's staff, i.e. 14.8 percent of total employees.

Lending to companies impacts economic growth, but to various degrees depending on their business sectors. For instance, companies in agriculture that took domestic loans account for around 52 percent of the value added by all the companies in the aforementioned sector. Conversely, the corresponding businesses in the real estate sector contributed about 20 percent of the total value added in the respective sector in December 2012.

(C2) The need to ensure companies' better access to funding should be further accompanied by a favourable structure of flows of new loans to non-financial corporations. Over the last years, tendencies to change banks' business model have taken shape, with a stronger focus on the corporate sector, to the detriment of financing households, as their relatively high degree of indebtedness and the prospects for the related ongoing deleveraging warrant moderate developments in lending to this sector in the future as well. During December 2011 – June 2013, the loans granted by domestic and foreign banks and NBFIs to companies increased by 0.5 percent, whereas those to households declined by 3.1 percent. Foreign creditors were the sole to account for the rise in corporate sector lending (+4.9 percent). Lei-denominated corporate loans extended by domestic banks rose by 9.5 percent. However, the decline in the stock of foreign currency loans (down 6.2 percent) caused banks' total exposure to narrow by 0.3 percent (adjusted for the exchange rate effect).

In terms of quality, corporate funding witnessed favourable structural developments December 2011 through June 2013, the most noteworthy being: (i) lending to firms producing high value added goods (medium high-tech and high-tech) went up 4.3 percent, whereas the volume of loans granted to companies producing lower value added goods (low-tech and medium low-tech) contracted 1 percent; (ii) companies in the tradable sectors reported a 0.6 percent rise in financing, while the non-tradable sectors posted a decline of 1.1 percent; and (iii) looking at the business profile, agriculture reported a 20.9 percent increase in funding, followed by trade and manufacturing, with an advance of 3.3 percent and 0.6 percent respectively. Conversely, lending to knowledge-intensive services companies dropped 6.2 percent, while the volume of funds channelled to less knowledge-intensive services companies stood 0.2 percent lower.

Eligible SMEs' access to funding is further a challenge, the same as in most European countries, and represents a priority of EU policy strategies with a view to resuming sustainable economic growth. December 2011 through June 2013, domestic SMEs received additional financing from domestic and foreign creditors (up 0.9 percent), with loans extended by domestic banks posting the fastest dynamics (2.5 percent, Chart 4.16.). During the same period, the number of SMEs with onstanding loans rose marginally (up 0.8 percent, namely approximately 600), remaining however clearly below that reported in December 2008, i.e. 77,500 versus 91,200, consistent with the existence of a credit channel in Romania's economy favouring large companies with a higher volume of assets, longer relations with creditors and substantial cash flows.

**Chart 4.16. Loans to SMEs and large companies from resident banks and NBFIs and non-resident banks**

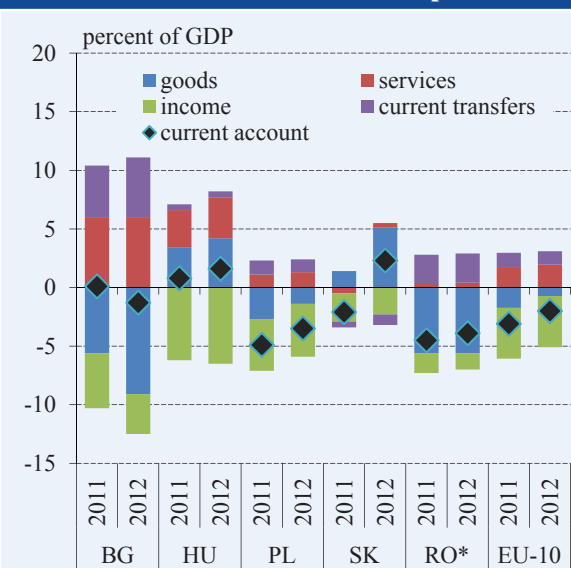
### 4.3. External balance

#### 4.3.1. Current account deficit

Since the release of the previous report, the developments in the current account and foreign trade companies highlight three main challenges: (A) to strengthen the sustainability of the current account deficit, (B) to preserve the ability of Romanian foreign trade companies to stand up to challenges on the external markets, and (C) to ensure a larger weight of such companies, particularly exporting ones, in domestic banks' loan portfolios.

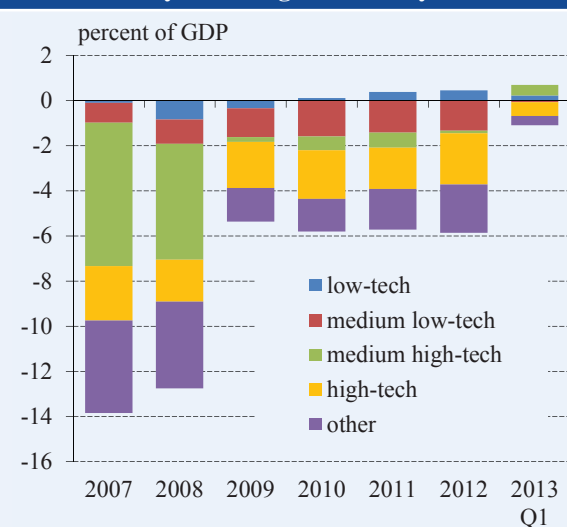
(A) The current account deficit kept on adjusting in 2012 and in the first part of 2013 and is expected to narrow to 2-2.5 percent of GDP in 2013-2014<sup>25</sup>. The last three-year (2010-2012) moving average of the current account deficit (the scoreboard indicator monitored by the European Commission in the Alert Mechanism Report for the prevention and correction of macroeconomic imbalances in the EU) stands at 4.3 percent of GDP, remaining slightly above the indicative threshold of 4 percent. In 2012, the current account deficit in Romania accounted for 3.9 percent of GDP (Chart 4.17.), so that there are prospects for the European Commission's alert indicator to go below the indicative threshold starting 2013. The significant additional adjustment of the current account balance in January-June 2013 (EUR 3.5 billion), which resulted in a EUR 0.65 billion surplus accounting for 1.1 percent of GDP (as compared with a EUR 2.8 billion deficit in the same year-ago period), is also in favour of the aforementioned conclusion.

<sup>25</sup> Statement by the IMF and the EC on Joint Discussions on a New Economic Program for Romania, as published on 31 July 2013, <http://www.imf.org/external/np/sec/pr/2013/pr13286.htm>

**Chart 4.17. Current account developments in EU-10 – total and components**

\*) according to domestic sources

Source: Eurostat, NBR calculations

**Chart 4.18. Trade balance of goods by technological intensity<sup>26</sup>**

Note: The microeconomic database for foreign trade has a 97 percent coverage in macroeconomic data.

Source: Eurostat, NIS, NBR calculations

Export breakdown points to three elements that call for a close monitoring. First, even though Romania's exports will necessarily remain channelled mostly towards its EU trading partners, the diversification of external markets would relatively reduce the vulnerabilities to the negative developments seen notably in a certain area. The economic picture in most EU Member States is further unfavourable to domestic exports. In 2012, euro area economic growth stood at -0.6 percent, with the 2013 forecast remaining negative (-0.4 percent<sup>27</sup>), while Romania's exports to this area account for a significant share in total exports, i.e. 51.6 percent in 2012. Domestic companies proved somewhat flexible in redirecting their export flows to countries enjoying better prospects for economic growth, so that December 2011 through March 2013 the share of Romania's exports to the euro area declined by 1.4 percentage points from 2011. During the same period, the weights of exports to Italy and France lost 0.7 percentage points (to 12 percent) and 0.4 percentage points (to 7 percent) respectively, whereas those of sales to the United Kingdom and Germany added 0.6 percentage points (to 3.8 percent) and 0.3 percentage points (to 18.8 percent) respectively. Overall, between December 2011 and March 2013 exports to the non-EU regions saw an increase. In the same period, export breakdown shows higher shares of sales to countries in Northern Africa<sup>28</sup> and the BRICS<sup>29</sup> than in 2011 (up 1 percentage point, to 2.8 percent, and 0.2 percentage points, to 4.4 percent respectively), while that of exports to the Middle East<sup>30</sup> became slightly lower (down 0.5 percentage points, to 3.2 percent).

<sup>26</sup> "Other" includes goods that are not classified in divisions 10-33 under manufacturing based on NACE Rev. 2.

<sup>27</sup> According to the European Commission Economic Forecast, Spring 2013.

<sup>28</sup> Egypt, Libya, Morocco, Tunisia and Algeria.

<sup>29</sup> Brazil, Russia, India, China and South Africa.

<sup>30</sup> Bahrain, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, the United Arab Emirates and Yemen.

Second, the diversification of external flows also takes into account the breakdown of domestic exports. Thus, the share of components with high value added and innovative technology needs to widen, with high-tech goods<sup>31</sup> playing an increasing role, as these Romanian industries proved their capacity to weather the crisis better than other sectors – their weight in total value added rose, amid above-average profit margins and considerable investment efforts. Medium high-tech goods<sup>32</sup> hold the highest share in domestic companies' exports, having advanced markedly of late, to 41.5 percent in March 2013<sup>33</sup>, up over 3 percentage points against December 2011. These goods performed best in 2013 Q1, accounting for a trade surplus of 0.5 percent of GDP (Chart 4.18.). On the other hand, in 2012 high-tech goods posted the largest trade deficit among the goods classified by technological intensity, i.e. 2.3 percent of GDP. Capital goods take a significant weight in imports of high-tech goods, so that the deficit thus generated is the result of an ongoing overhaul, even though it was not associated with a larger flow of foreign direct investment. Exports of high-tech goods embarked on a downtrend as a share in Romania's exports (from 10.7 percent in December 2011 to 8 percent in March 2013).

Third, exports show a relatively high concentration degree, which could put some constraints on preserving a sustainable current account deficit should any of the businesses enjoying significant exports (most often part of a multinational foreign-owned company) decide to withdraw from Romania. The top 20 companies that generate trade surplus make an approximately 3.5 percent of GDP contribution to the current account balance, i.e. 29.9 percent of the trade surplus of exporters as a whole in 2012. These companies are important to the economy as well, as they account for 2.9 percent of the value added by non-financial corporations as a whole and employ 1.3 percent of the latter's staff (December 2012).

As for imports, the companies that contribute to trade deficit are largely heterogeneous. Special mention should be made of the occasional foreign trade companies<sup>34</sup>, which are engaged mostly in imports and play an enhanced role in the sustainability of the current account. Despite their relatively low share in trade as a whole (4.2 percent of exports and 10.5 percent of imports in 2012), the aforementioned businesses systematically contribute approximately 2.5 percent of GDP to trade deficit (Chart 4.19.), i.e. 62.5 percent of the current account deficit in 2012.

(B) Romanian foreign trade companies further evince a good capacity to cope with the potentially unfavourable developments that might occur either externally or domestically. They play an important and slightly increasing role in the economy, which could cause the potentially adverse developments that may impact them have a bearing outside the sector as well. In 2012, the aforementioned businesses accounted for 42 percent of the gross value added by non-financial corporations (up 0.7 percentage points from a year earlier) and employed 26.1 percent of the latter's staff (up 0.5 percentage points from 2011).

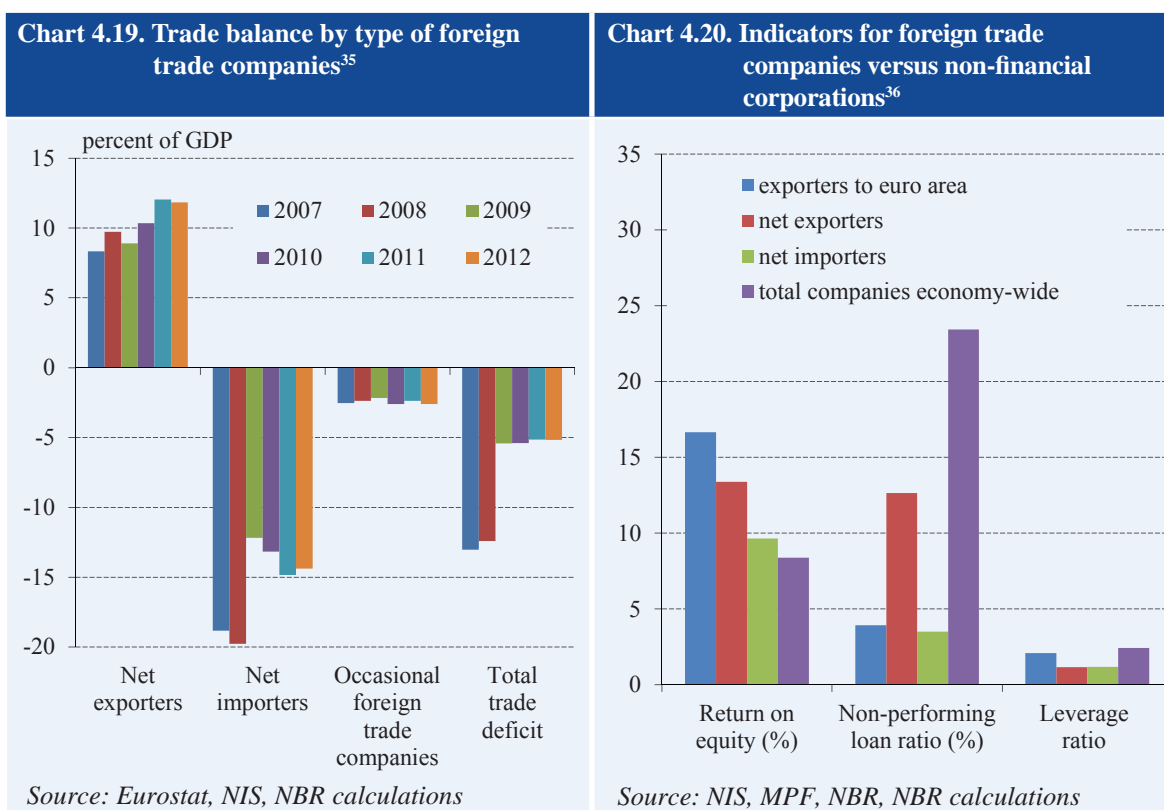
<sup>31</sup> Goods breakdown by technological intensity is in line with the Eurostat classification based on NACE Rev. 2.

<sup>32</sup> The most important goods in this category are: (i) transport means; (ii) mechanical apparatus and devices, and (iii) electrical machinery and equipment.

<sup>33</sup> The share of exports of goods by technological intensity is calculated for the last four quarters.

<sup>34</sup> The occasional foreign trade companies refer to companies that are not engaged in any significant imports or exports on an ongoing basis. They are numerous and focus mainly on imports, i.e. 23,561 importing companies and 4,117 exporting companies.

Despite crisis-induced unfavourable developments, net exporting companies have had the ability to increase their presence on external markets. Over the last years, they have made a larger contribution to a narrower current account deficit and their volume of net exports climbed from 9.7 percent of GDP in 2008 to 11.8 percent of GDP in 2012 (Chart 4.19.). In 2012, the turnover of net exporters rose at a faster pace than the economy-wide average, i.e. 11.5 percent against 5.6 percent.



At aggregate level, net exporters recorded lower profitability, while at individual level the number of net exporting companies that incurred losses was on the rise. Net exporters' return on equity was further above the economy-wide average, i.e. 13.4 percent versus 8.4 percent in 2012 (Chart 4.20.). Nevertheless, in 2012 the dynamics of this indicator followed a downward path as compared with the previous year. Thus, in 2012 ROE saw a 1.6 percentage point drop versus a 5.5 percentage point advance in 2011. The main driver of the deteriorating return on equity was the decline in asset turnover (by 9.3 percentage points), which more than offset the favourable impact of the higher leverage ratio (up 3.9 percentage points).

Net importing companies also enjoy a better economic and financial standing than the economy-wide average, albeit below net exporters. In 2012, the return on equity remained slightly higher than the economy-wide average, i.e. 9.7 percent versus 8.4 percent, embarking on an uptrend after coming in at 8.7 percent in 2011. Behind importers' improved return on equity stood the higher asset turnover

<sup>35</sup> Net exporting companies are foreign trade companies with net exports (trade surplus), whereas net importing companies are those with net imports (they generate trade deficit). Only the companies that are engaged in significant exports or imports – worth more than EUR 100,000 in each quarter over a year – on an ongoing basis were taken into account. The above-mentioned businesses accounted for 95.5 percent of the exports of non-financial corporations and 89.4 percent of their imports, respectively, in 2012.

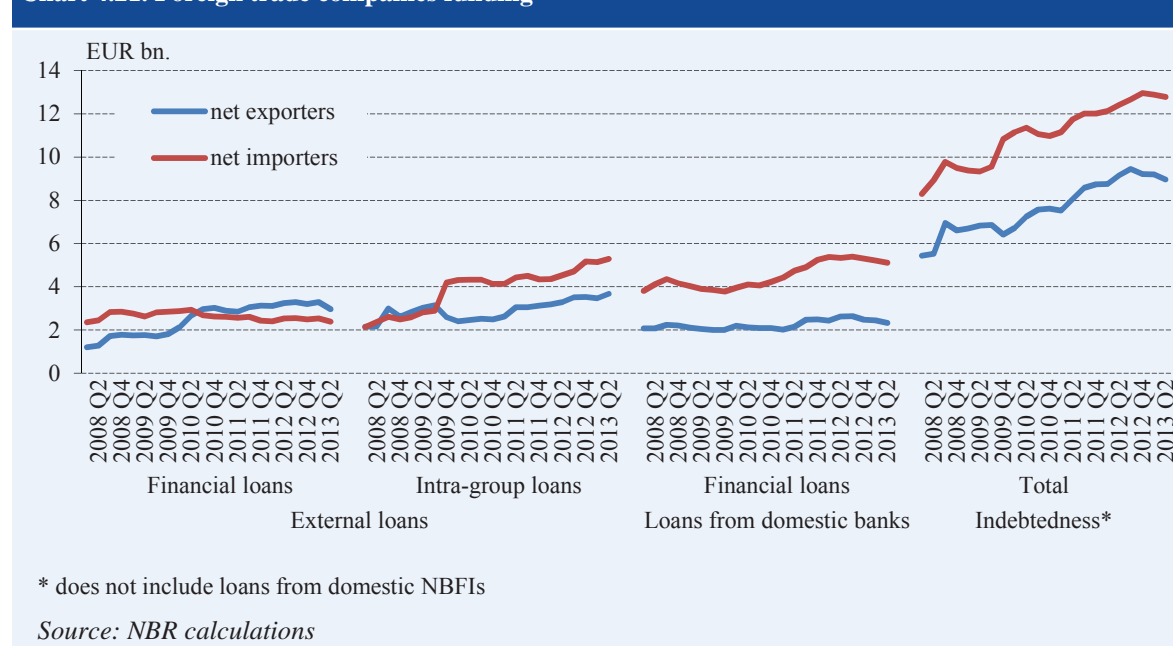
<sup>36</sup> The return on equity and the leverage ratio are calculated for December 2012, whereas the non-performing loan ratio is calculated for August 2013.

(up 6.3 percentage points), while the leverage ratio and the profit margin remained relatively unchanged. The turnover of net importers rose at a slower tempo than the economy-wide average (4.3 percent against 5.6 percent annual change in 2012). Many net importing companies incur losses, i.e. 629, accounting for a trade deficit of 3.4 percent of GDP and holding a 17.8 percent share in the total number of net importers. Nevertheless, in 2012 the situation remained broadly unchanged.

(C) Foreign trade companies and particularly net exporters have a relatively low weight in domestic banks' loan portfolio. An increase in this weight would benefit financial stability, as the aforementioned businesses showed greater resilience amid the crisis and their capacity to service their bank debt is significantly higher than that of the other non-financial corporations.

In line with international practice, foreign trade companies – net exporters and net importers alike – resort mainly to foreign funding. In June 2013, loans from non-resident financial institutions and intra-group loans accounted for 73.1 percent of total loans to net exporters and for 58.4 percent of those to net importers, respectively (Chart 4.21.). December 2011 through June 2013, both net exporters and net importers resorted to foreign financing to a larger extent, with higher shares of such loans in total funding, i.e. up 2.7 percentage points and 3.7 percentage points respectively.

**Chart 4.21. Foreign trade companies funding**

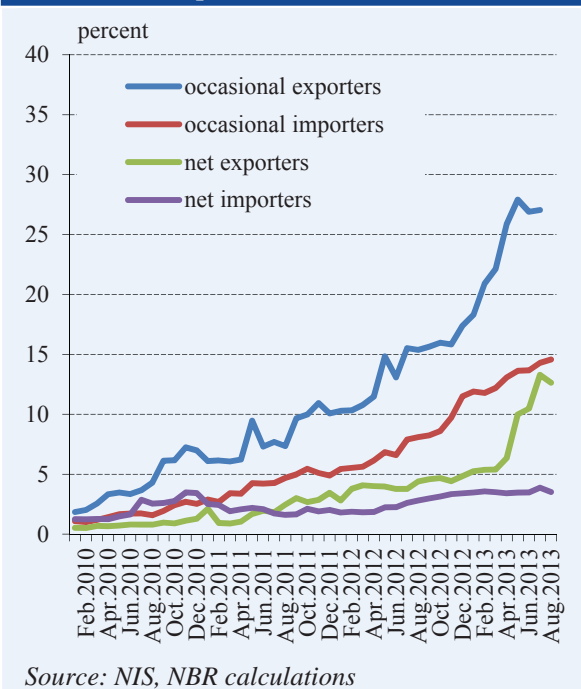


Net exporters hold a low share of the Romanian banking sector's loan portfolio and service their debt significantly better than the rest of economic operators. Domestic loans to net exporters account for 8.9 percent of total loans to non-financial corporations (June 2013). This type of financing, tantamount to approximately EUR 2.3 billion, holds 25.6 percent of total lending to net exporting companies by both domestic and foreign financial institutions or parent companies (June 2013, Chart 4.21.). In June 2013, total funding amounted to EUR 9.1 billion, being on the rise (up 2.3 percent from December 2011) on account of: (i) the 15.6 percent increase in short-term external loans, and (ii) the 17.4 percent advance in intra-group loans, while (iii) the loans granted by domestic banks lost 6.5 percent. Certain opportunities to replace foreign funding with domestic financing might emerge in

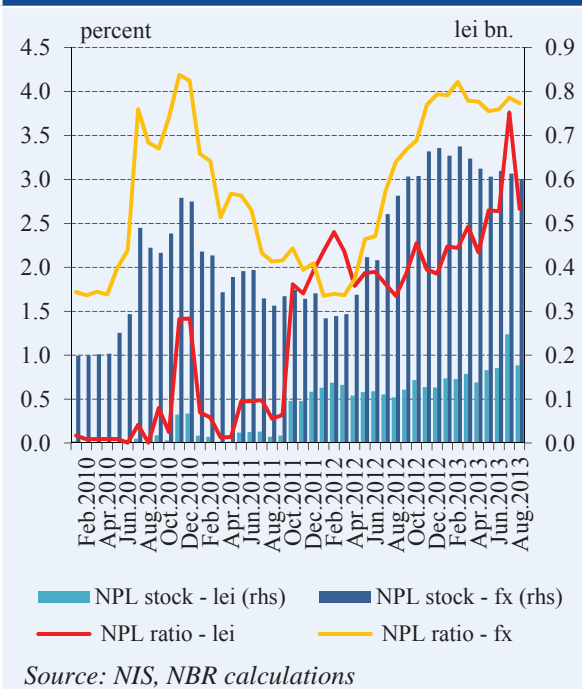
case the deleveraging announced by large EU banking groups led net exporters' loan demand to shift from foreign creditors to domestic ones. Net exporters further enjoy a good indebtedness capacity, as the leverage ratio (debt/equity) stood at 1.2 in 2012, below the alert threshold, i.e. 2, and the economy-wide average, i.e. 2.4. Moreover, net exporting companies showed a satisfactory bank debt servicing capacity. Their non-performing loan ratio<sup>37</sup> came in at 12.6 percent (Chart 4.20.), whereas that of non-financial corporations as a whole reached 23.4 percent in August 2013.

Net importers hold a larger weight of the domestic bank loan portfolio (19.6 percent of total loans to non-financial corporations in June 2013). As a matter of fact, domestic banks are an important funding source for such companies, accounting for 38.9 percent of total credit from foreign and domestic financial institutions or parent companies in June 2013, ranking second after intra-group loans, which hold 40.3 percent. Net importers' total financial debt amounts to EUR 13.1 billion, up 6.2 percent in June 2013 from December 2011 on the back of: (i) the 22 percent rise in intra-group loans, while (ii) loans from foreign financial institutions saw a 1.7 percent drop, and (iii) those from domestic banks fell by 2.5 percent. Net importers further enjoy a sustainable indebtedness capacity, as the leverage ratio (debt/equity) stood at 1.2 in 2012 and their interest coverage ratio is further above par, i.e. 3.4. In addition, net importers evinced a very good bank debt servicing capacity, standing higher than that of net exporters (Chart 4.22.), with the non-performing loan ratio coming in at 3.5 percent in August 2013 (while that of non-financial corporations as a whole was 23.4 percent).

**Chart 4.22. NPL ratios of foreign trade companies and occasional foreign trade companies**



**Chart 4.23. NPL ratio of net importing companies by loan currency**



<sup>37</sup> The non-performing loan ratio is the share of loans granted to companies overdue for more than 90 days and/or for which legal proceedings have been opened (with contamination at company level) in total loans to companies.

Thus, a rise in the share held by net importing companies in the domestic bank loan portfolio is likely to have a positive bearing on the quality of bank assets, also in view of the expected increase in lei-denominated funding, against the backdrop of the implementation of the ESRB recommendations on foreign currency lending at EU level. In June 2013, net importers' foreign currency-denominated loans from non-resident banks that are to reach maturity by June 2014 totalled EUR 2.1 billion. The renewal of some of these foreign currency loans extended by foreign banks by converting them into lei-denominated loans granted by domestic banks (as the latter have cheaper lei-denominated resources than non-resident banks) would exert a favourable impact, including over the longer term, on the quality of domestic bank assets (Chart 4.23.), the income of credit institutions and the sustainability of lending in Romania.

### 4.3.2. Capital flows

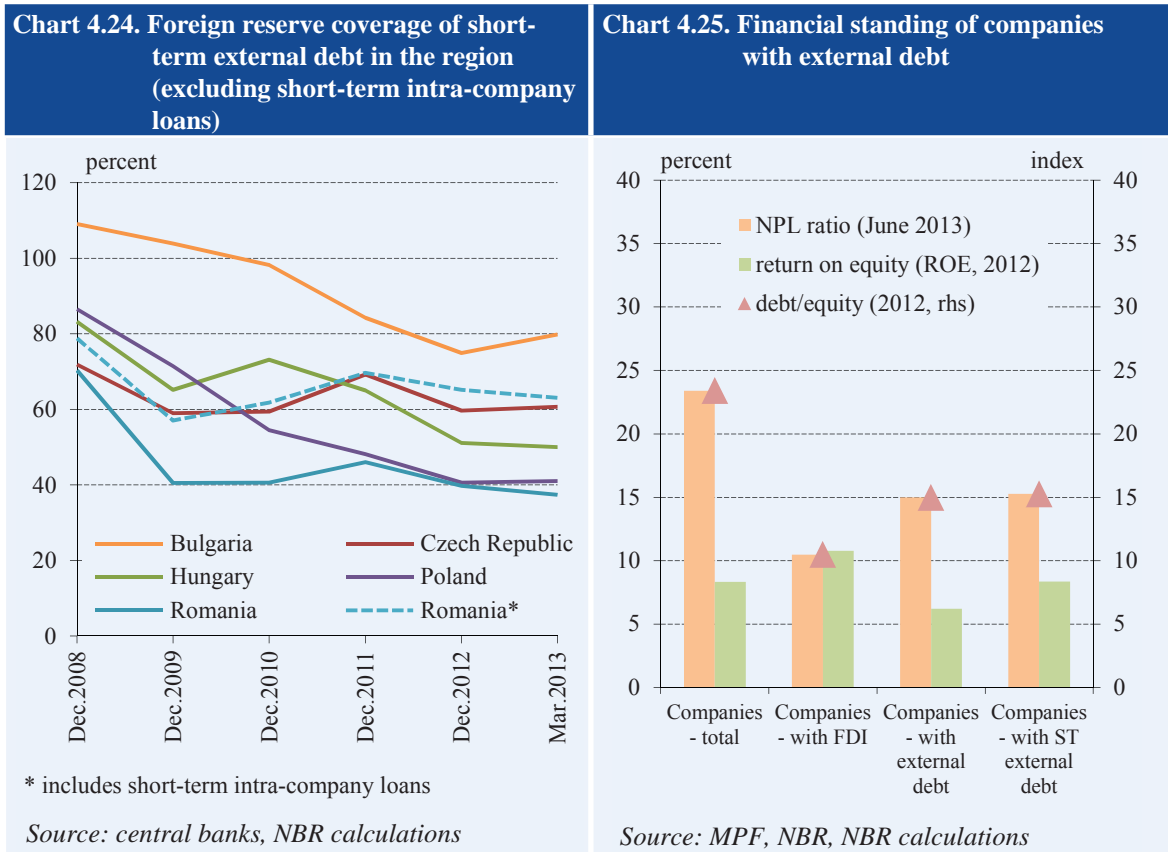
Romania has further benefitted from net capital inflows, amid a tension-ridden external environment that overlapped domestic developments associated with elections in the latter half of 2012. Following some capital outflows in the period May-June 2013, occurring simultaneously with similar events on other emerging markets, portfolio investments in Romania bounced back to levels close to those seen prior to the reduction in exposure to emerging economies in terms of asset class, validating the fact that capital flows are further directed particularly towards the economies where the major macroeconomic equilibria have already been adjusted or their adjustment is underway, as well as towards the countries implementing structural reform programmes.

The main risks to financial stability generated by the developments in capital flows refer to: (A) the further strengthening of the sustainability of the short-, medium- and long-term external debt service, so as, together with maintaining domestic macrostability, to preserve the access to foreign funding under adequate conditions, and (B) the improved structure of foreign financing flows, thereby contributing to the sustainable change in the growth pattern for the Romanian economy.

(A) Potential risks to financial stability associated with the dynamics or structure of foreign capital flows have remained manageable and are expected to retain the same features. First, Romania's short-term external debt followed a downward path, contracting by more than 12 percent in the period December 2011 – June 2013 (from EUR 22.8 billion to EUR 19.9 billion). Furthermore, the official foreign currency reserve provides an adequate coverage for the short-term external debt, the best across the region (Chart 4.24.).

Second, the companies generating the country's private external debt enjoy a satisfactory economic and financial standing, which enables them to withstand moderately unfavourable developments. Despite posting, in 2012, a lower return on equity than the economy-wide average (6.2 percent versus 8.4 percent in December 2012), the aforementioned businesses reported faster dynamics of their value added and serviced their debts to the domestic banking sector better (Chart 4.25.). Their non-performing loan ratio is below the system-wide average (15 percent against 23.4 percent economy-wide in August 2013) and the pace of deterioration of their debt servicing capacity is slower than the system-wide average.





Third, the short-term external debt of non-financial corporations is accounted for nearly 60 percent by parent companies. The evidence shows that such financing proved among the most stable. The orderly developments in short-term foreign funding depend on both parent companies' capacity to adequately manage their liquidity resources at group level and their interest in investing further in Romania. In 2012, the return on equity of domestic companies that have incurred short-term external debt was close to the average in the real economy (8.3 percent versus 8.4 percent). The rollover ratio of non-financial corporations' short-term external debt is relatively high, i.e. over 75 percent June 2012 through June 2013.

Fourth, medium- and long-term foreign financing of non-financial corporations provided by creditors in countries perceived on international markets as being more severely hit by the sovereign debt crisis (the GCIIPS countries, namely Greece, Cyprus, Italy, Ireland, Portugal, and Spain) holds a moderate share in total medium- and long-term external debt (15 percent in June 2013). Assuming adverse developments in financing extended by creditors from those countries, their direct impact on the Romanian economy or the Romanian banking sector via the corporate debtor channel is most likely low, also due to the maturity of the loans. Companies with medium- and long-term external debt from creditors in the GCIIPS countries make a low contribution to the domestic economy, as they account for 6.3 percent of the value added by non-financial corporations, hold 7.9 percent of the latter's assets and employ less than 1.8 percent of the staff in all businesses (December 2012). In addition, the above-mentioned companies make up 3.4 percent of total loans granted by banks to the corporate sector (August 2013).

Fifth, the Romanian banking sector is able to withstand a moderate shock of a failure to roll over foreign borrowings, the main drivers being: banks' higher stock of liquid assets, their gradual reduction in reliance on foreign financing (the share of foreign funding in total bank liabilities net of capital shrank 5 percentage points, while the loan-to-deposit ratio fell from 119.1 percent at end-2011 to 109 percent in August 2013) and the enforcement of NBR measures aimed at strengthening credit institutions' capacity to cope with adverse developments in foreign capital flows. Among these measures, the following deserve mention: (i) preserving the banking sector's prudential indicators on solvency and provisioning coverage of non-performing loans at adequate levels; (ii) ensuring that banks hold an appropriate amount of eligible collateral for the central bank's monetary policy operations aimed at making available the necessary liquidity for the banking sector, if required, and (iii) broadening the range of eligible collateral to ensure access to the NBR's open market operations and credit facility by including USD-denominated securities issued by the Romanian government and lei-denominated bonds issued by international financial institutions.

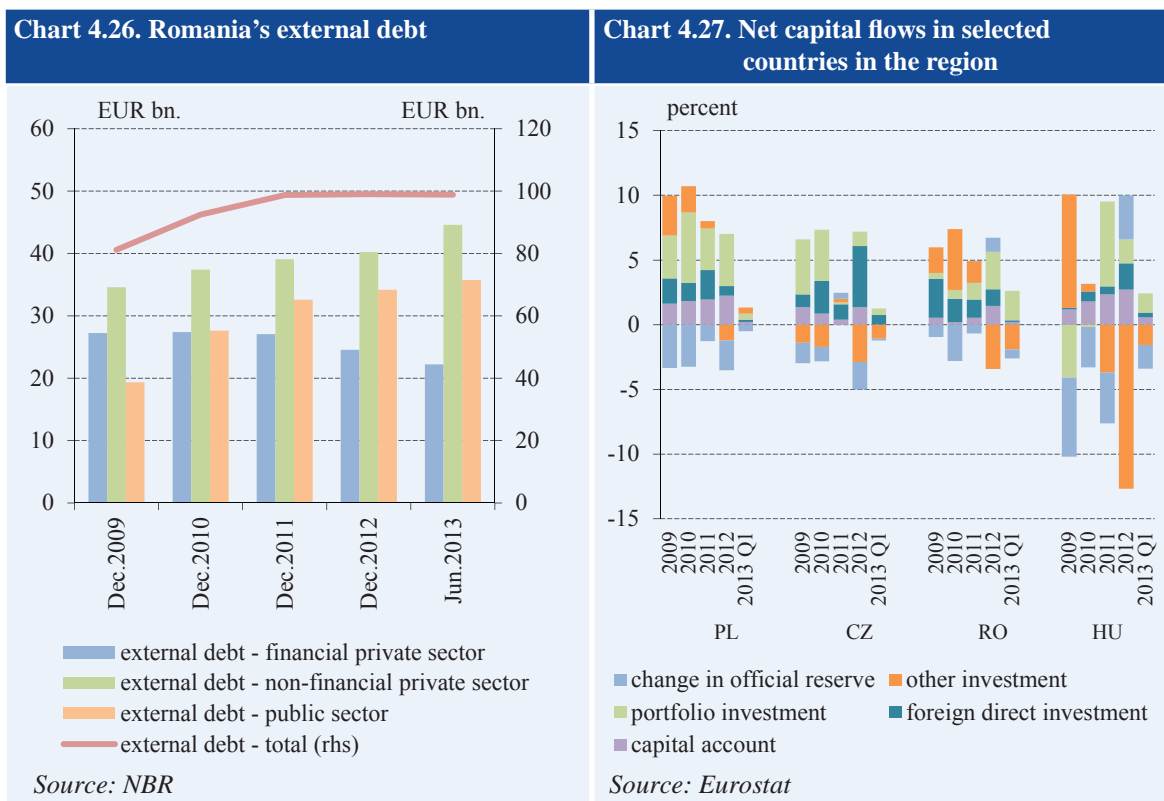
Sixth, as of 2010 the Romanian government set up a foreign currency fiscal buffer with a view to covering budget financing needs for four months (for further details, see Chapter 4.1. "Domestic macroeconomic developments").

Seventh, Romania agreed on a new economic programme supported by a 24-month precautionary Stand-By Arrangement with the International Monetary Fund and a new precautionary Balance of Payments assistance programme with the European Union, amounting to EUR 4 billion as a whole. These funds would be a last resort solution should extremely unfavourable developments occur on international markets and the already-in-place fiscal buffers set up by the Romanian authorities prove insufficient.

(B) Since the release of the previous report, the breakdown of capital flow dynamics saw mixed developments. On the one hand, (B1) net foreign capital inflows occurred and (B2) they were channelled, to a larger extent, towards business sectors that contribute to the sustainable change in the growth pattern for the Romanian economy. On the other hand, (B3) the access of domestically-owned companies to foreign funding remains relatively low, (B4) foreign direct investment follows a downtrend, while (B5) although modest, the inflows of European funding posted faster dynamics.

(B1) Foreign creditors maintained their exposures to Romania, whose external debt rose marginally to EUR 98.8 billion in June 2013 from EUR 98.7 billion in December 2011 (Chart 4.26.). In 2011 Q4 – 2013 Q2, the private external debt contracted by approximately EUR 3 billion as a result of mixed changes by debtor type. Non-financial corporations' external debt added roughly EUR 1.8 billion, (+5.3 percent in 2011 Q4 – 2013 Q2), of which more than a third is accounted for by the medium- and long-term component. Non-financial corporations were further supported by parent companies, particularly via short-term loans. By contrast, the external debt of the financial private sector and especially of the banking sector declined by about 17 percent in 2011 Q4 – 2013 Q2 (for further details, see Chapter 4.2. "Corporate and household lending"). The authorities offset the reduction in net private capital inflows by raising funds on external markets. Foreign investors showed increasing interest in the securities issued by the Romanian government chiefly due to the domestic macroeconomic consolidation and the favourable prospects for the coming

years. In 2011 Q4 – 2013 Q2, the external public debt rose by EUR 2.3 billion, with the amounts raised through the issue of bonds largely making up for the repayments of the loan taken from the EU and the IMF in the previous years.



(B2) Companies in the tradable sectors benefitted from increasing foreign funding. The external debt stock of such companies added around EUR 1.5 billion (+13 percent in 2011 Q4 – 2013 Q2) versus EUR 1.2 billion (+7 percent over the same period) in the case of companies in the non-tradable sectors. The latter further hold the larger share in foreign financing, accounting for 59 percent of total external debt and for 48 percent of short-term external debt in 2013 Q2. The foreign funding of companies manufacturing medium high-tech and high-tech goods rose at a faster tempo than that of companies operating in low-tech and medium low-tech industries (+30 percent as compared with +3 percent in 2012 Q2 – 2013 Q2), with the latter further reporting a higher external debt stock, i.e. EUR 5.5 billion in 2013 Q2.

(B3) Domestically-owned companies do not enjoy the same diversified funding sources as foreign-owned businesses. Companies where non-resident shareholders hold the majority stake (more than a 50 percent equity stake) account for almost 70 percent of the non-financial private external debt (over EUR 24.7 billion in 2013 Q2).

(B4) Foreign financing classified as foreign direct investment further witnessed unfavourable developments. In 2012, net FDI inflows contracted by 4 percent from a year earlier and by about 29 percent in the first seven months of 2013 in year-on-year comparison. The reduction in FDI flows was manifest across all the countries in the region except for the Czech Republic (Chart 4.27.).

Nevertheless, the Romanian companies benefitting from FDI flows enjoy a better financial standing than the economy-wide average, which is indicative of a potential resumption of such flows. The aforementioned companies post a 10.7 percent return on equity (versus an 8.4 percent average of non-financial corporations in December 2012), low indebtedness (1.6 percent leverage ratio in December 2012) and a substantially lower non-performing loan ratio than the system-wide average (10.5 percent against 23.4 percent in August 2013).

(B5) Despite improving somewhat, EU funds absorption, which is another non-interest bearing financing source, was further modest (for further details, see Chapter 4.1. “Domestic macroeconomic developments”). These funds accounted for approximately 5 percent of domestic investment in 2012 and for less than 6 percent in 2013 H1.

## 5 NON-FINANCIAL CORPORATIONS AND HOUSEHOLDS

---

### 5.1. Risks generated by non-financial corporations

*Companies' economic and financial standing saw a slight improvement in 2012, with the vulnerabilities that emerged in the pre-crisis period of unsustainable growth ameliorating somewhat. Performance has been mixed across types of companies since the previous report, but the economic growth pattern has continued to alter sustainably. Companies' relatively high degree of heterogeneity led to the situation in which, although the microeconomic fundamentals improved at aggregate level, the firms having encountered difficulties in the past were usually not able to overcome them and hence payment discipline remained loose and companies' capacity to service their outstanding bank debt continued to diminish. Credit institutions hold adequate levels of capital and provisions to cover the risks stemming from corporate financing and have available techniques for managing non-performing loan portfolios that have not yet been used to the fullest. In order for banks to preserve the solvency and provision buffers, the National Bank of Romania implemented additional prudential measures, especially concerning the unhedged borrowers, in line with the macroprudential recommendations at European level. Furthermore, the new precautionary agreement signed with the European Union and the International Monetary Fund for a 24-month period includes provisions on carrying on structural reforms across the economy, which is likely to alleviate part of the vulnerabilities identified in the non-financial corporations sector.*

#### 5.1.1. Non-financial corporations' economic and financial results

Companies' financial soundness improved slightly in 2012, against the background of a modest GDP growth (+0.7 percent), whereas the international climate remained tense, which highlights the frailty of this improvement. The main challenges identified in the previous report are still in place: (A) the economic growth pattern continued to alter sustainably, but at a significantly lower speed, which calls into question the durability of these changes. Several weaknesses related to economic growth persist, including in terms of its variability, and the faster economic growth rate in 2013 will most likely be the result of unequal developments in the main components (with private consumption and gross fixed capital formation having a more modest contribution), and (B) companies' economic and financial performance improved, but their developments were heterogeneous and structural vulnerabilities are still manifest.

(A) The sectors having the capacity to cause a sustainable change in the economic growth pattern witnessed mixed developments. First, the firms in the tradables sectors<sup>1</sup>: (i) continued to consolidate their position across the economy, albeit at a low speed (the share of the gross value added generated by these firms in the total gross value added generated by non-financial corporations rose to 37.9 percent in December 2012, compared to 37.3 percent in December 2011, Chart 5.1.); (ii) recorded positive and upward total cash flows, but (iii) the return on equity decreased (to 7.7 percent in December 2012, i.e. 0.7 percentage points below the level posted in December 2011), against the background of a

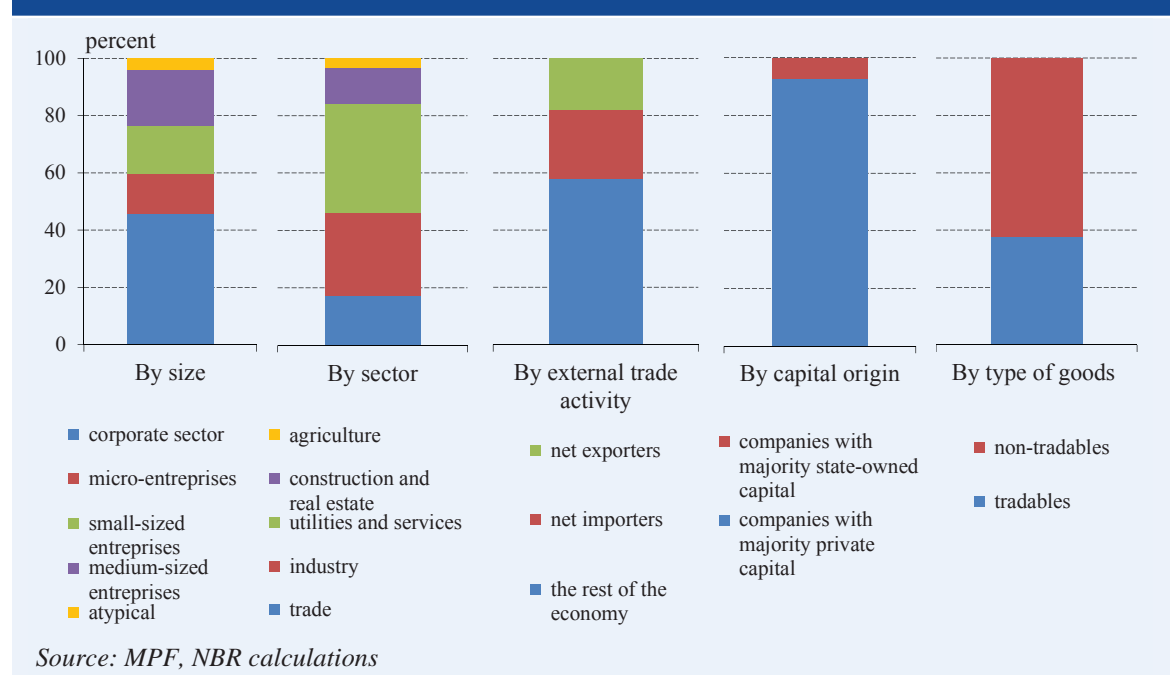
<sup>1</sup> Tradables sectors cover companies in agriculture, hunting and forestry, industry and energy and might as well encompass companies providing international transport, communication, external travel services etc. but the available statistics do not allow a clear and precise identification of the mentioned firms. Non-tradables sectors include companies in construction, trade and services and transport, warehousing and communications.

decreasing profit margin and asset turnover (by contrast, the firms in the non-tradables sectors saw an increasing return on equity, up 1.3 percentage points, to 9.3 percent in December 2012).

In their turn, banks contributed to the change in the economic growth pattern, increasing slightly their exposure to the tradables sector (by 0.2 percent in December 2011 – August 2013, while marginally reducing their exposure to the non-tradables sector by 1.6 percent over the same period; exchange rate effect-adjusted values). This financing pattern might persist, as companies in the tradables sector have a relatively better debt-servicing profile than those in the non-tradables sector (the non-performing loan ratio<sup>2</sup> was 20.1 percent in the former case and 25.2 percent in the latter one, in August 2013).

Second, net exporting companies<sup>3</sup> followed the same trend as the tradables sector overall: (i) they increased their contribution to the GVA generated by non-financial corporations (from 16.5 percent in December 2011 to 17.8 percent in December 2012); (ii) they posted positive and upward total cash flows; (iii) they serviced their bank debt significantly better than the economy-wide average (the non-performing loan ratio was 13.3 percent compared to 23.4 percent, in August 2013), but (iv) the return on equity declined (from 15 percent in December 2011 to 13.4 percent in December 2012), remaining, however, above the economy-wide average (8.4 percent in December 2012).

**Chart 5.1. Breakdown of gross added value generated by non-financial corporations, December 2012**



Third, firms operating in the sectors producing highly innovative technological goods and services (high-tech, medium high-tech and knowledge-intensive services companies<sup>4</sup>) raised their contribution to the gross added value generated by non-financial corporations (from 25.6 percent in December 2011 to 26.1 percent in December 2012) amid the deceleration in the dynamics of the turnover

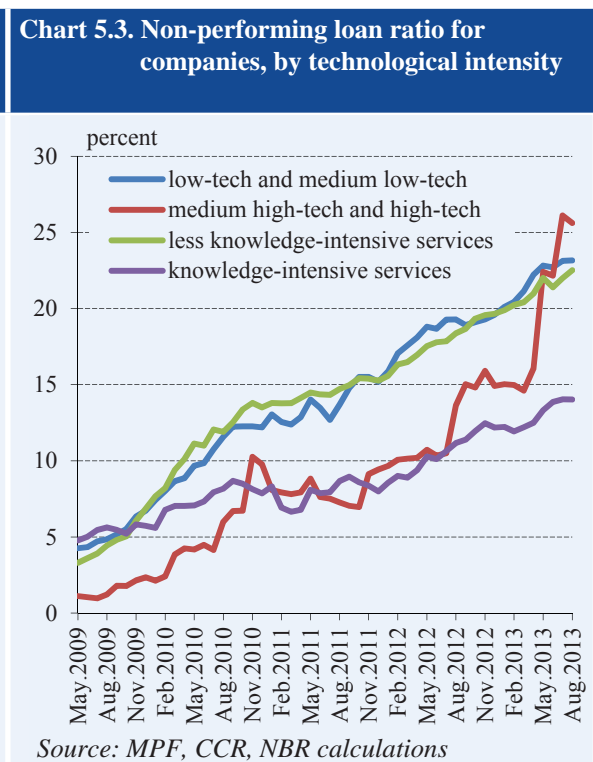
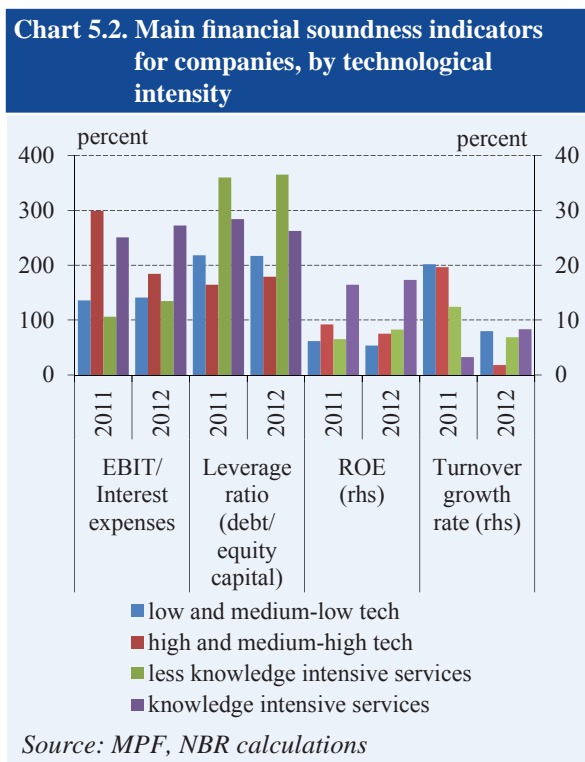
<sup>2</sup> The non-performing loan ratio is defined as a share of the loans to companies with payments overdue for more than 90 days and/or against which legal proceedings were initiated, in total loans to companies. The definition is based on the information in the Central Credit Register (CCR) database and does not cover the overdue interest (as this is not reported to the CCR).

<sup>3</sup> Only firms having recorded exports or imports worth more than EUR 100,000 in each quarter of 2012 were taken into consideration.

<sup>4</sup> Classification according to Eurostat.

(5 percent in 2012, slightly below the economy-wide average of 5.6 percent, with high-tech firms posting a considerably slower growth rate). The return on equity saw mixed developments, going down for high-tech and medium high-tech companies (from 9.2 percent in December 2011 to 7.5 percent in December 2012) and moving up for knowledge-intensive services firms (from 16.4 percent in December 2011 to 17.3 percent in December 2012, Chart 5.2.). Moreover, the interest coverage ratio remained satisfactory, which translated also into a better debt servicing compared to the rest of the economy.

Taking into account the manner in which non-financial corporations, by sector of activity, serviced their debt over the last seven years, and considering the necessity to continue the change process of the economic growth pattern, credit institutions may consider implementing internal lending standards that would favour companies operating in the sectors that can contribute to the mentioned change, inasmuch as their own analyses might indicate this. The NBR’s preliminary results show that the firms grouped into medium-high tech and high-tech sub-sectors posted an average non-performing loan ratio below the economy-wide average over the last seven years<sup>5</sup> (Chart 5.3.).



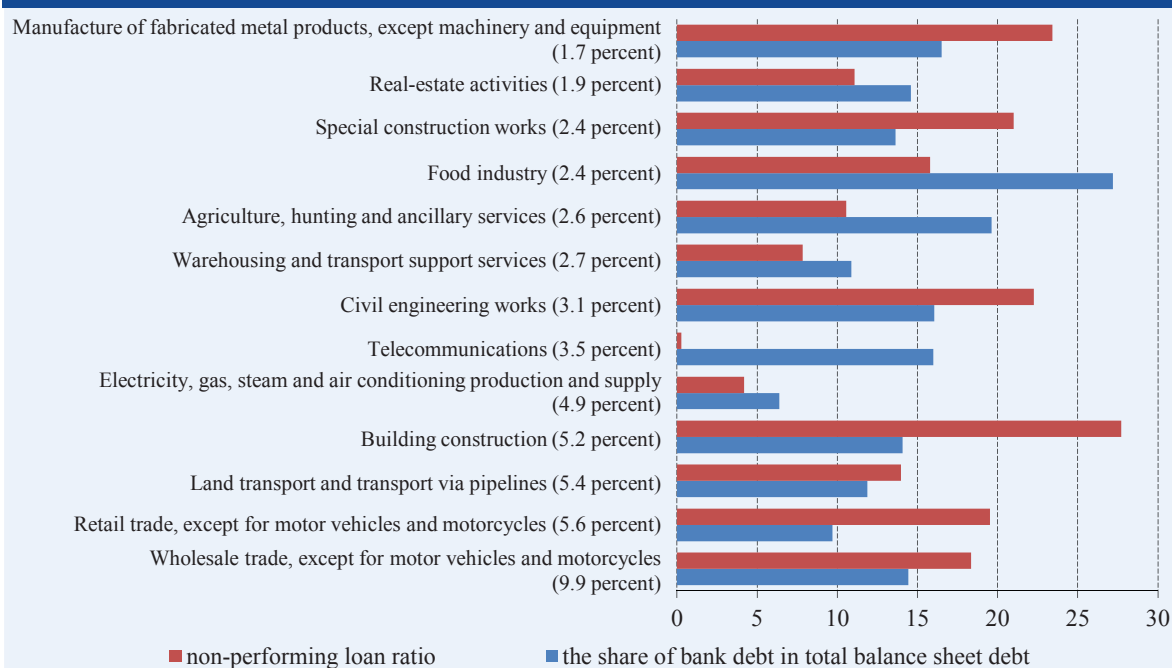
Where banks’ lending standards would discriminate more strongly between firms based on the credit risk posted throughout an economic cycle, access to financing might improve for those sectors playing an important role in generating added value across the economy. The firms in the sectors with the largest share in the GVA generated by non-financial corporations that rely significantly on bank financing service their debt well compared to the rest of the economy (Chart 5.4.). As a matter of fact, discriminating between lending conditions by economic sector is part of the macroprudential toolkit that is to be used across the EU<sup>6</sup>.

<sup>5</sup> The marked increase in the non-performing loan ratio of medium high-tech and high-tech firms highlighted by Chart 5.3. is ascribable to a single firm with majority state-owned capital.

<sup>6</sup> The mentioned macroprudential instrument was explicitly referred to by the European Systemic Risk Board on the indicative list of instruments that should be included in the macroprudential authorities’ portfolio (Recommendation of the ESRB on intermediate objectives and instruments of macroprudential policy, ESRB/2013/1).

(B) At aggregate level, non-financial corporations witnessed positive developments. The return on equity edged up (from 8.2 percent in December 2011 to 8.4 percent in December 2012), the interest coverage ratio remained unchanged at an above-par level (1.79 in December 2012), while the turnover went up by 5.6 percent (yet considerably less than the 14.0 percent increase seen in 2011). Structural analysis shows mixed developments, while the vulnerabilities identified in the previous report were further manifest.

**Chart 5.4. Economic sectors with the largest shares in GVA generated by non-financial corporations resorting to a larger extent to bank funding**



Source: MPF, CCR, NBR calculations (with the share of GVA generated by the mentioned sector in brackets)

First, the economic situation continues to differ significantly across the firms classified based on their size. Small- and medium-sized enterprises (SME) find it harder to cope with the crisis compared with large enterprises, development consistent with the credit channel effect during sluggish growth stages of the business cycle. Although the return on equity (ROE) was similar for corporations and SMEs (8.4 percent in December 2012), the latter witnessed large differences depending on their size: small-sized enterprises posted the best return on equity (11.7 percent), while micro-enterprises saw a larger loss (from -14.6 percent in December 2011 to -16.8 percent in December 2012). As a matter of fact, micro-enterprises posted: (i) very high indebtedness (against the background of a 34.5 percent drop in equity capital in 2012); (ii) significant losses (lei 1.5 billion before paying interest and the tax on profit<sup>7</sup>, in December 2012); (iii) a high non-performing loan ratio (46 percent in August 2013), and (iv) a very long claim-collection period (180 days, whereas the economy-wide average was 103 days, in December 2012). At the opposite pole were corporations with a low indebtedness at aggregate level (the leverage ratio stood at 1.3 in December 2012) and a very good interest coverage ratio (3.5 in December 2012).

<sup>7</sup> Earnings before interest and taxes (EBIT).



Second, firms by economic sector recorded mixed developments. The financial results of firms in agriculture remained positive overall, albeit lower in 2012 than in the previous year, with: a high return on equity (17.9 percent in December 2012), a large increase in their turnover (up 10.7 percent in 2012 compared to 2011), and a debt-servicing capacity above the average (the NPL ratio stood at 14.9 percent compared to 23.4 percent on average in August 2013). At the opposite pole were further firms in the construction and real-estate sectors. Firms in the latter sector continued to incur losses in 2012 too, against the background of high and increasing indebtedness (owing to the 20.5 percent drop in equity capital in 2012) and a foreign currency exposure of about 400 percent of equity capital (in December 2012), with external debt constituting these companies' main financing source. Firms in the real-estate sector took considerable loans from local banks as well (approximately 16 percent of the corporate bank portfolio in August 2013). Construction firms posted the highest non-performing loan ratio (39.7 percent in August 2013), with their turnover diminishing by 2 percent in 2012, concurrently with the 1.2 percentage point decrease in the contribution to the GVA generated by non-financial corporations in 2012 (to 10 percent in December 2012).

Third, firms with majority private capital recorded positive developments overall, while firms with majority state-owned capital continued to post mixed developments, as shown in the previous report. On the other hand, state-owned companies continued to service their bank debt better than private companies (the non-performing loan ratio generated by firms with majority state-owned capital was 11.5 percent, while the economy-wide average was 23.4 percent in August 2013), amid low indebtedness (the leverage ratio was 1.2 compared to 2.8 for privately-owned firms, in December 2012). State-owned companies saw a worsening of their aggregate results: (i) the return on equity declined to 0.3 percent (compared to 10.6 percent for firms with majority private capital, in December 2012); (ii) turnover contracted by 23 percent in 2012, and (iii) the contribution to the GVA generated by non-financial corporations went down by 1.8 percentage points (to 7.2 percent in December 2012).

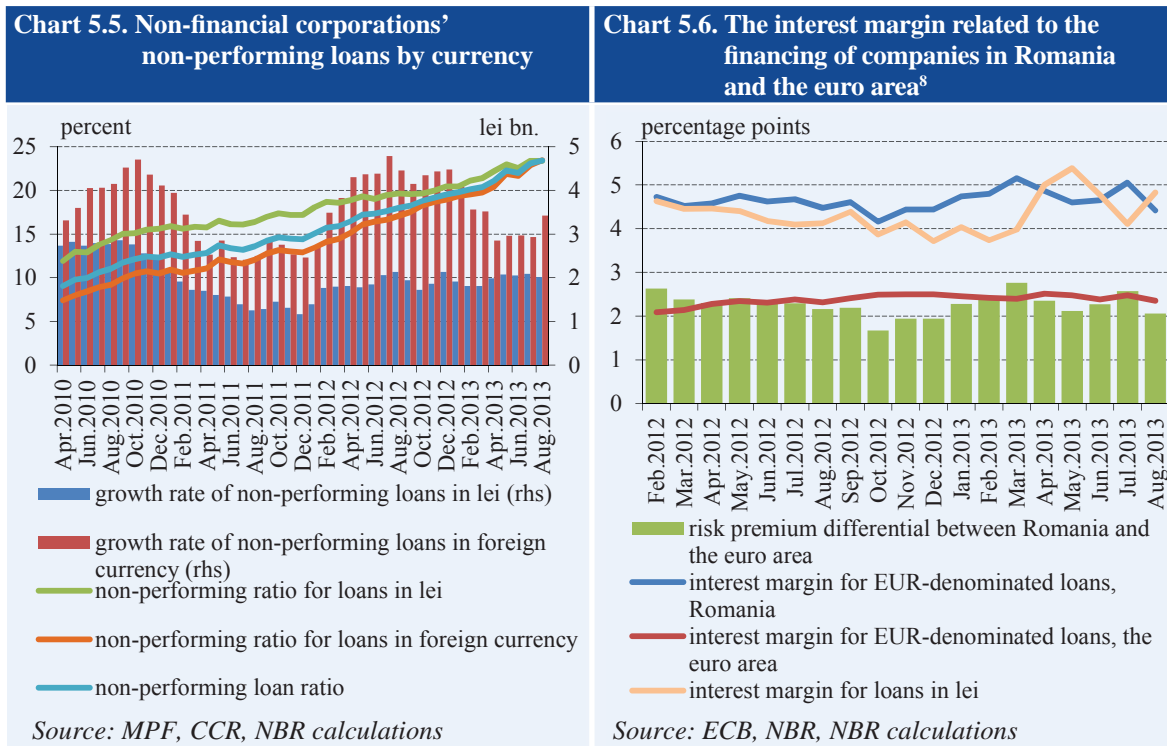
The vulnerabilities described above are expected to moderate in the future, as economic growth consolidates sustainably and the 7.7 percent decrease in GDP in 2009-2010 is recovered. In addition, the new economic programme signed for a 24-month period with Romania's main international partners (the European Union and the International Monetary Fund) comprises provisions for continuing structural reforms in the economy, with that relative to the improvement in the governance of state-owned enterprises being deemed a priority.

### **5.1.2. Payment discipline of non-financial corporations**

The vulnerabilities identified in the previous report relative to the risks to financial stability posed by companies persisted: (A) the non-performing loan ratio generated by companies across banks' and NBFIs' portfolio continued to increase (B) the debt payment discipline towards trading partners and authorities was further loose, and (C) insolvency, including its abusive use, became more pronounced in 2012.

(A) The quality of the loan portfolio to firms continued to diminish. The pro-cyclical tightening of bank lending standards, amid the heterogeneous effect of the credit channel on firms, contributed to the decline in the companies' capacity to service their debt. The non-performing loan ratio went up to 23.4 percent in August 2013 (compared to 14.4 percent in December 2011, Chart 5.5.). This increase was mainly ascribable to the stronger rise in the volume of non-performing loans compared to that in the volume of loans granted by domestic banks (65 percent, compared to 1.4 percent, December 2011 – August 2013), against the background of a lower demand for financing and further tightening of lending standards by banks. Financing in foreign currency of firms has remained riskier

than financing in lei, which advocates furthering the ongoing rebalancing of lending by currency. The growth rate of the volume of non-performing loans in foreign currency has outpaced that of the volume of non-performing loans in domestic currency and thus, starting with August 2013, the ratio of non-performing loans in foreign currency has exceeded the ratio of non-performing loans in lei (23.5 percent compared to 23.4 percent).



Although the risk related to lending to Romanian companies went up, it is most likely that it has stayed broadly unchanged compared to the risk related to lending to firms in the euro area. Thus, the risk premium differential between Romanian companies and companies in the euro area remained relatively unchanged (approximately 200 basis points, Chart 5.6). Banks' interest margin (relative to 3M ROBOR) on new loans in lei rose markedly, although the risk arising from lending in local currency proved to be lower than that in foreign currency. The National Bank of Romania's decisions to cut the policy rate (in three stages, by 0.25 percentage points, 0.5 percentage points and 0.25 percentage points respectively, in July, August and September 2013, to 4.25 percent) alongside the better risk profile for financing in lei should lead to lower financing costs related to loans in domestic currency.

The outlook for the non-performing loan ratio shows that, most likely, unless banks take stronger measures to clean their balance sheets (for further details, see Chapter 5.3. "Risks generated by the real-estate sector and mortgage-backed lending"), the deterioration will continue over the next period, albeit at a slower pace. First, the borrower migration matrix by number of overdue payment days (Chart 5.7.) indicates that most companies with payments overdue for more than 90 days stay in this category. More than 50 percent of the companies falling within B, C and D overdue buckets witnessed a risk profile worsening, while about 28 percent started to better service their debt. Second, the average probability of default fell to 6.2 percent in December 2013 compared to 7.3 percent at the end of the previous year, hinting at a further anticipated slowdown in the worsening of the

<sup>8</sup> Calculated as the spread between the interest rate on new loans to companies and the 3-month money market rate. For reasons of comparison with the euro area, the risk premium for Romania was calculated for loans in euro only.

non-performing loan ratio, should the macroeconomic environment remain in line with expectations (Chart 5.8.). Thirdly, the number of the companies downgraded to a higher risk category is higher than that of firms improving their risk profile, and the number of the companies further falling within the riskiest category has remained very high (over 73 percent of the total volume of non-performing loans are more than one year overdue). Fourthly, the effectiveness of credit risk management techniques that banks resorted to has been below their potential so far, reflecting inter alia credit institutions' hesitations to firmly address non-performing loan management, also in light of the impact on the additional provisioning requirements. However, the share of the volume of rescheduled/refinanced loans having become non-performing in total rescheduled/refinanced loans went up (from 25 percent to 42.3 percent, in the December 2011 – August 2013 period), while banks intend to sell a relatively low volume of non-performing loans (about lei 400 million<sup>9</sup>) in 2013 H2.

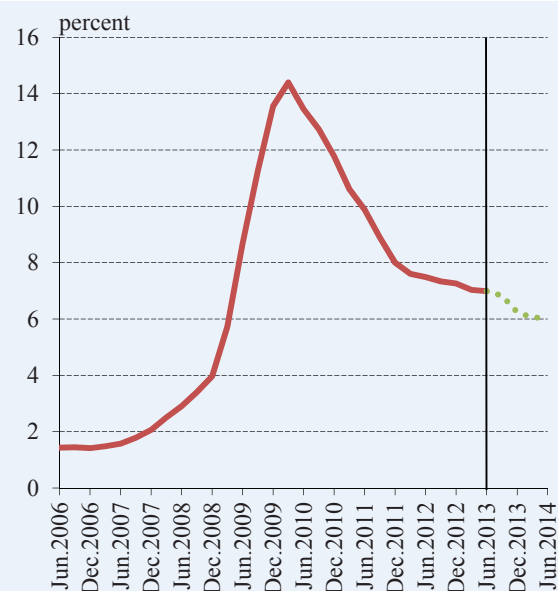
**Chart 5.7. Borrower migration matrix by number of overdue payment days (August 2012 – August 2013)**

|   | →    |      |      |      |      |
|---|------|------|------|------|------|
| % | A    | B    | C    | D    | E    |
| A | 89.0 | 1.7  | 2.6  | 1.7  | 5.0  |
| B | 31.4 | 14.4 | 13.0 | 12.1 | 29.1 |
| C | 25.7 | 4.9  | 15.6 | 14.8 | 38.9 |
| D | 15.1 | 2.8  | 11.4 | 21.8 | 48.9 |
| E | 1.3  | 0.2  | 0.5  | 0.6  | 97.4 |

A – payments overdue for up to and including 15 days  
 B – payments overdue for 16 days up to and including 30 days  
 C – payments overdue for 31 days up to and including 60 days  
 D – payments overdue for 61 days up to and including 90 days  
 E – payments overdue for more than 90 days

Source: MPF, CCR, NBR calculations

**Chart 5.8. Non-financial corporations' annual rate of default, according to the baseline macroeconomic scenario**



Source: NBR calculations

Although the quality of the loan portfolio to companies continued to deteriorate, the banking sector in Romania holds adequate buffers to cover both expected and unexpected risks. The solvency ratio is further adequate (14.7 percent, in June 2013), while the coverage ratio of companies' non-performing loans with IFRS provisions and prudential filters is at an appropriate level (84.9 percent when including prudential filters for calculation; considering the IFRS provisions only, the level stood at 62 percent in August 2013). The NBR will continue to carefully oversee the trends in firms' capacity to service their debt and will adopt the necessary measures so that the banking sector maintains its capacity to manage the unfavourable developments that might arise.

In 2012, the NBR supplemented the regulatory framework on the lending activity, so as to lay the groundwork for improving the repayment of new loans in foreign currency granted to unhedged firms even in the event of adverse developments in the interest rate or the exchange rate.

(B) Firms' payment discipline deteriorated relative to both business partners and the state.

<sup>9</sup> According to the *Questionnaire on Loan Portfolio Management Techniques*, May 2013.

The loose payment discipline was due also to the liquidity constraints across the economy, arising against the background of tighter lending terms and conditions by banks and overdue payments generated by firms among themselves or by the state. The average period for companies to collect claims remained at a level similar to that seen a year ago (103 days in 2012, compared to 100 days in 2011, Chart 5.9.). Looking at the breakdown by the firm's size, the claim-collection period saw uneven developments: (i) it rose in the case of micro-enterprises (from 172 days to 180 days), most likely owing to these entities' lower negotiation power of contractual terms and conditions; (ii) it stabilised across SMEs, and (iii) it edged up in the case of large enterprises (from 79 days in December 2011, to 82 days in December 2012), remaining, however, at low levels.

The volume of overdue payments across the economy continued to grow (from lei 97 billion in 2011 to lei 102.6 billion in 2012), posting mixed structural developments (Chart 5.10.). Thus:

(B1) Companies' overdue payments to the government diminished by 5 percent in 2012 compared to 2011 (to reach lei 25 billion in December 2012). The dynamics were mainly shaped by state-owned companies whose overdue payments went down by 22 percent; however this evolution is ascribable to the cancellation of some overdue debts to the state. Private companies' overdue payments to the state advanced by more than 14 percent in 2012. The concentration of companies producing such overdue payments has remained high, with the top 10 companies (most of them with majority state-owned capital) generating more than 41 percent of total overdue payments to the state (in December 2012).

(B2) Companies' overdue payments to suppliers picked up by 9.6 percent in 2012, to reach lei 58.6 billion (of which more than 70 percent were arrears<sup>10</sup>). The concentration of firms producing arrears advanced in 2012, with the first 10 companies (most of them with majority state-owned capital) generating 19 percent of the arrears to suppliers in the economy, compared to 16 percent in 2011. Private firms pay their liabilities to suppliers better than state-owned companies (the rate of default<sup>11</sup> for commercial debt is 15 percent, compared with 39 percent for state-owned companies). At sectoral level, private construction and real-estate companies continued to post the highest rates of default (22 percent and 18 percent, respectively).

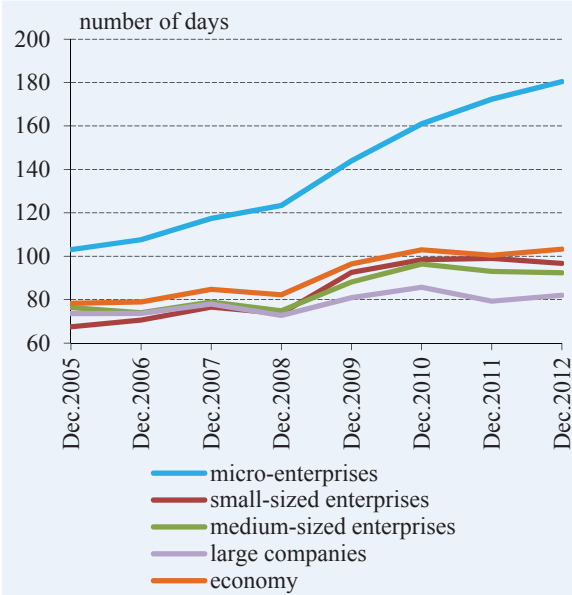
(B3) Government arrears to companies rose marginally (from lei 0.84 billion in December 2011 to lei 0.86 billion in December 2012, according to the IMF), with local governments being further the main entities generating overdue payments (the share of arrears generated by local governments went up to 96 percent in December 2012, compared to 89 percent in the previous year.) On the other hand, the government's overdue payments ratio<sup>12</sup> on its debt to companies fell to 3.2 percent (in December 2012, from 4.2 percent in December 2011), while the number of companies holding similar overdue claims decreased to 11,000 (in December 2012, from 14,700 in December 2011). The companies holding overdue claims on the government generated about 14 percent of the added value (December 2012) and took about 8 percent of bank loans to companies (in August 2013).

<sup>10</sup> The arrears were defined as payments overdue for more than 90 days. The definition is in line with the provisions of the agreement with the IMF. Unless otherwise specified, the data based on which arrears were calculated originate in the regular balance sheet reports by the non-financial corporations to the MPF.

<sup>11</sup> Calculated as a ratio of companies' overdue payments to suppliers and total commercial debt of firms generating the respective overdue payments.

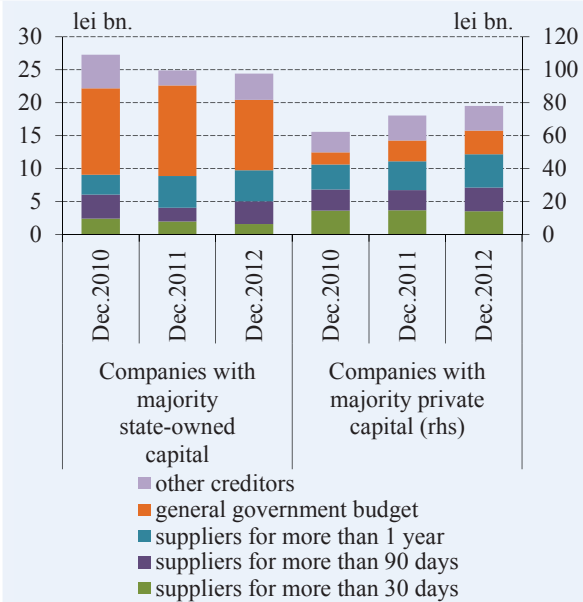
<sup>12</sup> Calculated as a ratio of the value of overdue claims on the government to non-financial corporations' claims on the government.

**Chart 5.9. Claim-recovery period**



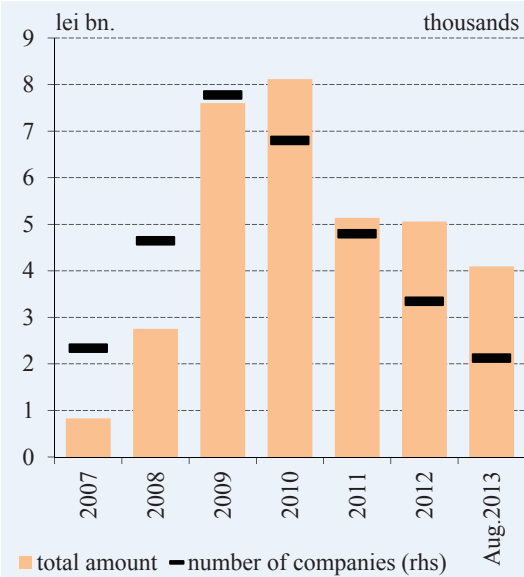
Source: MPF, NBR calculations

**Chart 5.10. Breakdown of overdue payments across the economy**



Source: MPF, NBR calculations

**Chart 5.11. New major payment incidents**



Source: MPF, PIR, NBR calculations

firms in construction and real-estate sectors are further the entities that produce a significant volume of payment incidents.

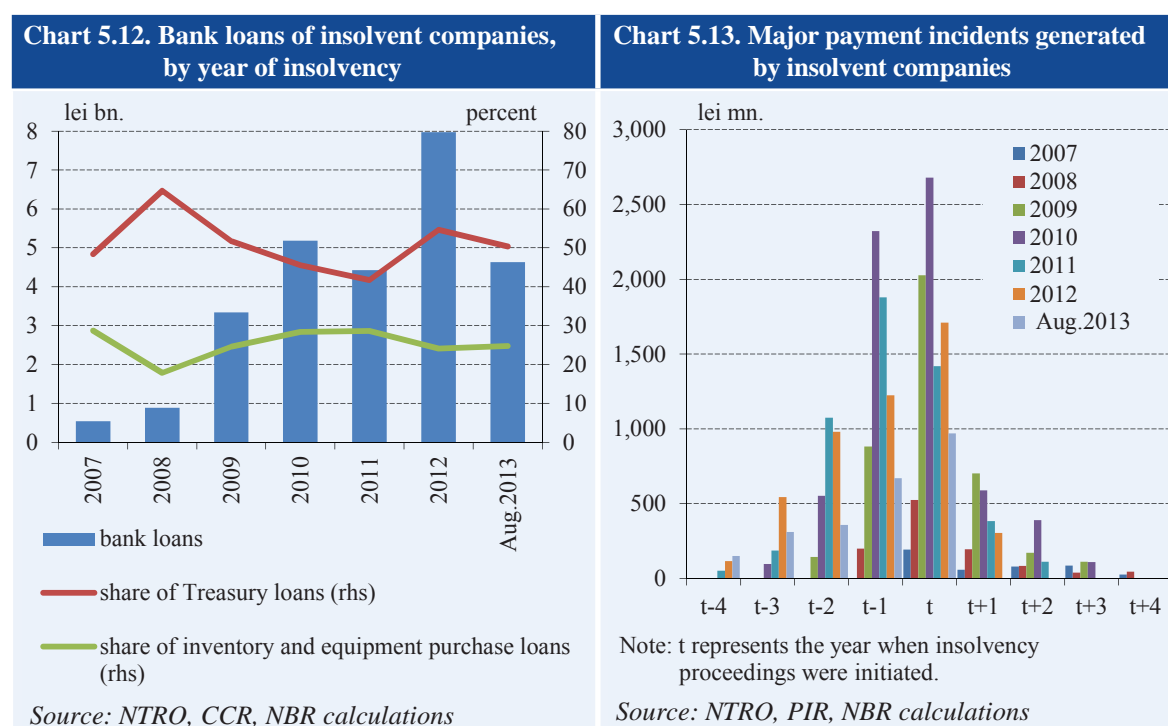
(C) Insolvency accelerated significantly in 2012. The number of companies against which insolvency or bankruptcy proceedings were initiated rose by 17 percent (in 2012 compared to 2011), to reach about 26,800. The first eight months of 2013 saw a slight increase compared to the same year-ago period (the number of insolvency cases increasing by 2.7 percent). The number of newly-established companies exceeds significantly that of companies undergoing insolvency proceedings.

(B4) The volume of major payment incidents generated by companies in December 2011 – August 2013 rose slightly (by 4.8 percent compared to December 2010 – August 2012), whereas the number of companies generating such incidents plunged (by 27 percent, Chart 5.11.). The concentration of the top 100 companies remains high (47 percent of the volume of major payment incidents, up 16 percentage points compared to the previous period). The companies generating major payment incidents play a moderate part in the economy (they generate 4 percent of the added value of non-financial corporations and hire 6 percent of the number of employees in this sector, in December 2012), but they play an important part in the dynamics of non-performing loans (34 percent of the volume of non-performing loans were generated by these companies in August 2013). At sectoral level,

Thus in 2009 – August 2013, the annual number of newly-established companies is, on average, 150 times higher than the number of companies against which insolvency or bankruptcy proceedings were initiated. It is possible that the companies having undergone insolvency proceedings may have left their liabilities to the lenders and may have transferred the assets to new companies prone to act similarly when facing a financial deadlock.

Most firms undergoing insolvency or bankruptcy proceedings: (i) have as core activity retail trade, wholesale trade and building construction (the same as in the last six years); (ii) their capital is primarily domestically-owned (89 percent of firms, in December 2012), and (iii) they are mainly small firms (particularly micro-enterprises); an alarm signal is sent by the increasing number of corporations undergoing insolvency proceedings, as well as by the abusive use of this ultimate resort procedure by some firms. The recovery through reorganisation of the insolvent companies is low. 86 percent of the companies having undergone insolvency proceedings during January 2009 – August 2013 faced bankruptcy (and 77 percent of them have already been struck off), with only 1.2 percent being reorganised. The results prove that the permissive legislation on insolvency has most likely made a contribution to creating the possibility for companies, especially for those with majority private capital, to adjust to a small extent through their own efforts and to a significant extent on account of the lenders – especially general government budget and banks. With a view to improving payment discipline across the economy, the authorities adopted a new legal act relative to insolvency which came into force in October 2013<sup>13</sup>.

The role that the companies against which insolvency or bankruptcy proceedings were initiated play in the economy and bank balance sheets is on the increase. Compared to the companies having undergone insolvency proceedings in 2011, those that underwent such proceedings in 2012 have 20 percent more employees, their total assets are almost double, and their bank debt is considerably higher (lei 7.9 billion in the case of companies undergoing insolvency proceedings in 2012, compared to lei 4.4 billion in the case of companies having undergone insolvency proceedings in 2011, Chart 5.12.).



<sup>13</sup> Government Emergency Ordinance No. 91/2013 on insolvency and insolvency prevention proceedings.

The local financial system is further significantly affected by the low capacity of insolvent companies to service their debt, as reflected by the ongoing upward trend of non-performing loans. The volume of loans granted by banks and NBFIs to companies undergoing insolvency or bankruptcy proceedings was considerable (lei 24.2 billion, accounting for 18.9 percent of total loans granted to non-financial corporations by banks and NBFIs, in August 2013). The volume of loans overdue for more than 90 days generated by these firms was of roughly lei 20.8 billion (taking 85.8 percent of the total volume of loans to companies overdue for more than 90 days, in August 2013). A large part of the bank loans to insolvent companies were mainly mortgage-backed (approximately 45.6 percent of exposures; loans without collateral accounted for 12.3 percent of total, in August 2013).

The difficulties insolvent firms have had in servicing their debt could affect their external creditors as well. Their external debt amounted to approximately EUR 2.2 billion in June 2013 (accounting for 6.7 percent of non-financial corporations' external debt). The short-term external debt accounted for 34 percent of total external debt and consisted primarily of loans from parent banks to their subsidiaries (56.1 percent and roughly EUR 0.4 billion respectively, in June 2013). Medium- and long-term external debt of insolvent companies came in at EUR 1.5 billion (of which 26.5 percent were loans from parent banks to their subsidiaries, in June 2013). Insolvent companies with large external debt came from the real-estate sector (43.8 percent, followed by services with 18 percent and utilities with 14.4 percent, in June 2013), and the concentration of external debt was further high (10 companies holding 43.9 percent of the volume of external loans to insolvent companies, in June 2013).

There is a tight correlation between the deterioration of the payment discipline to trading partners or financial creditors and the initiation of insolvency proceedings. The volume of overdue liabilities to suppliers saw a fast-paced growth rate in the year preceding the initiation of insolvency proceedings (up by 50 percent to 160 percent). In addition, the firms undergoing insolvency proceedings generated a significant part of major payment incidents (lei 3.3 billion, making up 65 percent of the volume of major payment incidents caused by non-financial corporations in 2012, Chart 5.13.). Furthermore, the business partners of the insolvent firms were negatively affected, to a significant extent, by the non-collection of claims (the volume of total overdue payments generated by insolvent companies ran at lei 36.5 billion, i.e. about 34.4 percent of total overdue payments economy-wide, while lei 13.9 billion represented overdue payments to suppliers, in December 2012). On the other hand, companies underwent insolvency proceedings also amid the difficulties in recovering their own claims (the claim-recovery period for these firms was of 286 days, i.e. almost 2.8 times longer than the economy-wide average, in December 2012).

To sum up, it is necessary to continue to improve the commercial, fiscal and accounting legislation framework with a view to enhancing the commercial and financial discipline in the real economy, with favourable effects on the soundness and stability of the banking system and on public finances and financial sector overall.

## 5.2. Risks stemming from the households' sector

*The risks arising from households' balance sheets were balanced, and indebtedness, especially in foreign currency – the largest vulnerability of this sector – entered a slightly downward path in line with the unfolding of the deleveraging process. However, the identified positive developments were uneven among the different categories of income earners, with households earning low and very low incomes generally posting a deterioration of their balance sheet. The sector's overall capacity to service its bank debt continued to diminish, albeit at a slower pace, while prospects are mixed. The riskiest portfolios are those granted under the loose prudential conditions in the years prior to the crisis, which constitutes yet another reason that lending should resume on a sustainable basis, under prudent credit risk assessment conditions. The banking sector holds adequate capital and provisioning buffers for covering the risks arising from household lending and this protection can only be ensured by maintaining an appropriate prudential framework.*

### 5.2.1. Households' balance sheet and saving behaviour

The risks arising from households' balance sheets have been balanced since the previous report. On the one hand, (A) the indebtedness and (B) the net debtor foreign exchange position were further high, staying, however, on a downward trend. On the other hand, (C) households' net creditor position towards banks continued to strengthen and (D) net wealth rose for the first time in five years, also due to the improvement in the liquidity of financial assets. There are, however, significant differences between the categories of households by income breakdown. Since the outbreak of the financial crisis, low income earners have been the most affected category of households and the risks arising from the developments in their balance sheets have intensified.

(A) The high indebtedness remains the main vulnerability of households' balance sheet, but this risk alleviated in the course of 2012 and the first part of 2013 (Chart 5.14.). The elements based on which indebtedness is quantified contributed to this improvement as well: households' total financial debt and debt service (standing for the numerator of the ratios based on which indebtedness was determined) decreased in the aforementioned period (including as a result of the cut in interest rates), whereas households' net wealth, total assets, disposable income and the GDP (standing for the denominator of the respective ratios) posted an increase.

Households' indebtedness has remained relatively high, after having posted in the pre-crisis years a rapid convergence process towards the values in the euro area. Apart from the level indicators, comparisons across regions concerning households' indebtedness should consider the structural features in Romania. First, in terms of the number of affected households, Romanian households' over-indebtedness is higher than the EU average. According to a survey by the European Commission<sup>14</sup>, more than 30 percent of households in Romania were over-indebted<sup>15</sup> (in 2011), which places our country in the upper tail of the distribution (alongside Bulgaria and Greece, with the EU average standing at 11.4 percent; in the lower tail of the distribution are Germany, the Netherlands and Luxembourg, where the share of the over-indebted population is below 6 percent). Most EU countries saw an increase in the number of over-indebted households, especially after the outbreak of the financial crisis, pointing out that EU banks' lending standards in the pre-crisis period were

<sup>14</sup> *The over-indebtedness of European households: updated mapping of the situation, nature and causes, effects and initiatives for alleviating its impact*, study conducted in January 2013 by Civic Consulting of the Consumer Policy Evaluation Consortium for the European Commission.

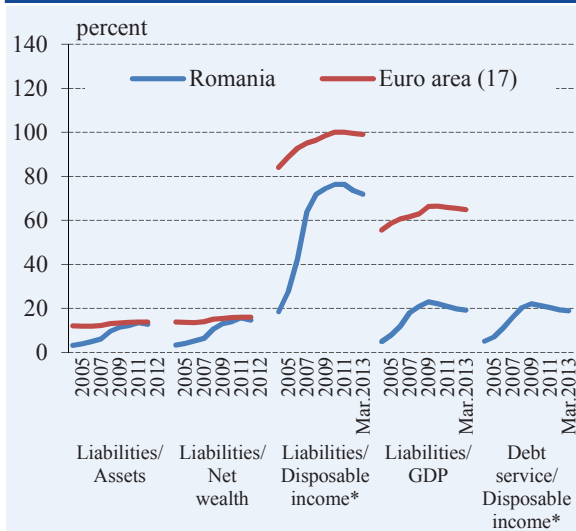
<sup>15</sup> In the mentioned paper, households are viewed as over-indebted where they encounter difficulties in servicing their debt on a continuous basis, be it either the bank debt service payment or the payment of rent, utilities or of other bills. The envisaged indicators are: overdue loans, loan non-performance, utilities and rent overdue payments or the use of administrative proceedings such as insolvency proceedings.



not prudent enough to cover the risk of simultaneous highly adverse macroeconomic developments. As a matter of fact, more than 90 percent of respondents indicated macroeconomic factors as being the main determinants of over-indebtedness. Among these factors, unemployment is the most significant, followed by wages, fluctuations in the interest rate and movements in the exchange rate. Starting with August 2008, the National Bank of Romania has implemented new prudential requirements aimed at ensuring *ex-ante* that borrowers could deal with unfavourable interest rate and exchange rate developments and, as of 2011, the requirements have extended to also cover the risk of a decrease in disposable income.

Second, the share of the debt service in households' monthly gross income stands relatively high in Romania compared to other EU countries (Chart 5.15.). A significant determinant thereof has been the interest rate spread between loans in domestic currency and those in the single European currency that has recently seen a significant decline. Another contributor to the higher interest rate spread has also been the large share of consumer loans in total loans to households (54 percent in Romania, compared to 27 percent in the euro area, in June 2013), considering the generally higher interest rates on consumer loans than those on real-estate loans. Where the interest rate influence is not taken into account and indebtedness is calculated only based on the debt in stock (the principal), the levels of indebtedness in Romania become comparable or even lower than those in the euro area (for example, the share of bank loans to households in GDP was 17.2 percent, compared to a 55.1 percent average in the euro area, in June 2013). The National Bank of Romania's decision to cut the policy rate (from 5.25 percent upon the release of the previous report, to 4.25 percent in September 2013) should contribute to a decrease in the interest rates on households' loans, including new loans (and implicitly to the decline in their debt service and indebtedness), considering the high share of loans with a variable interest rate.

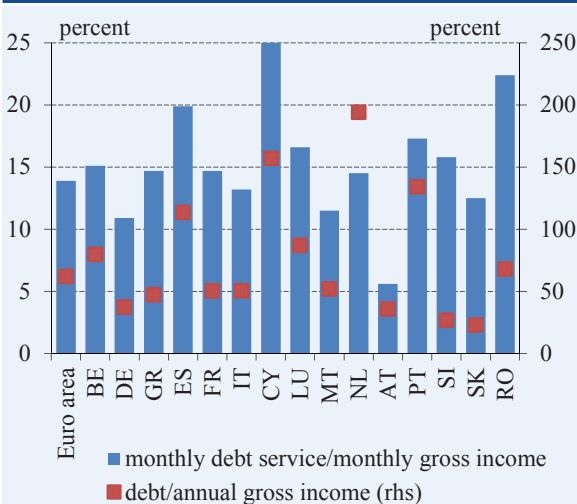
**Chart 5.14. Households' indebtedness – aggregate indicators**



\* Total household disposable income, net values. The debt service/disposable income is not available for the euro area.

Source: ECB, NBR, NIS, NBR calculations

**Chart 5.15. Households' indebtedness – EU comparisons<sup>16</sup> (median values)**

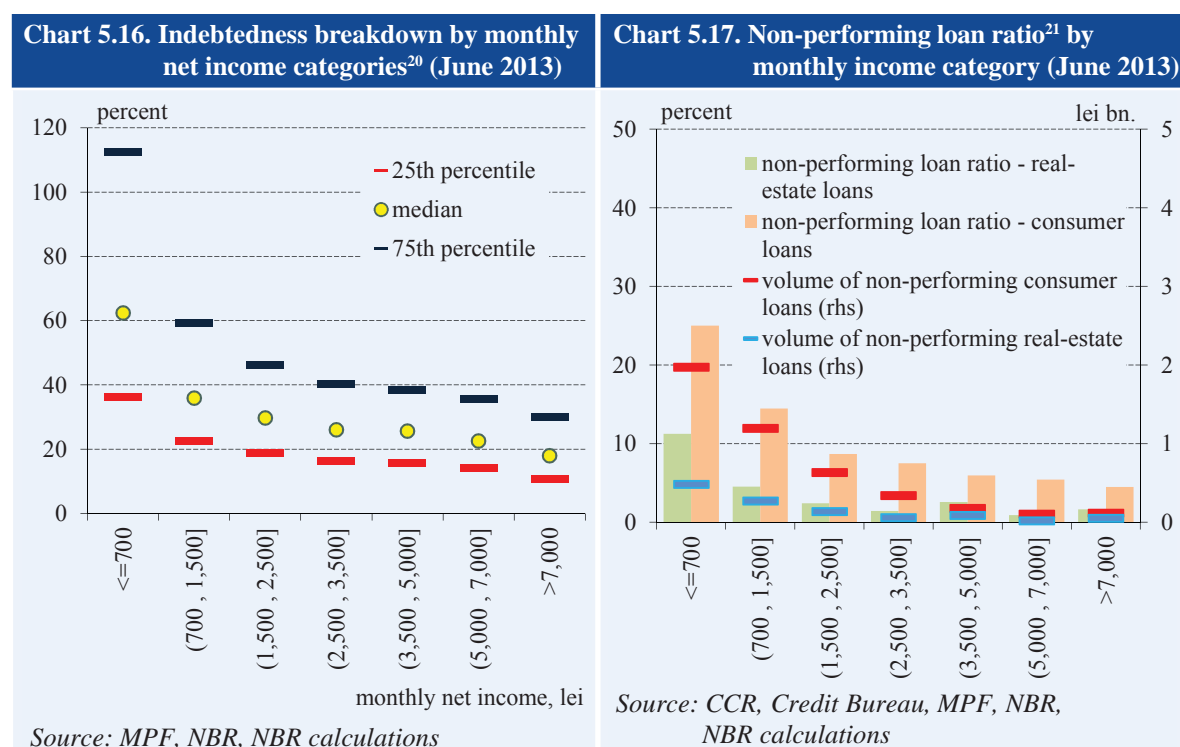


Source: for the euro area countries: Eurosystem Household Finance and Consumption Survey; for Romania: CCR, Credit Bureau, MPF, NBR calculations

<sup>16</sup> Data for 2010 refer to Belgium, Germany, Spain, France, Italy, Cyprus, Luxembourg, Malta, Austria, Portugal, Slovakia; data for 2009 refer to Greece, the Netherlands and data for 2008 refer to Spain. The monthly debt service/the gross monthly income indicator is calculated for the indebted household and does not include credit lines, overdraft and credit cards. The debt/annual gross income indicator shows the household's debt to the financial system. Data for Romania refer to June 2013. The median values of the monthly debt service/monthly gross income and debt/annual gross income indicators are calculated for a sample of persons indebted to banks, accounting for 40 percent of total borrowers, natural entities, and 60 percent of the volume of bank loans.

Third, the share of consumer spending for meeting mainly basic needs, more exactly for purchasing food items, is significantly higher for Romanian households than the EU average (44.2 percent compared to 16.8 percent in 2005; the share for Romania saw a decrease to 35 percent in March 2013). In this case, the occurrence of unfavourable developments in the interest rate or the exchange rate can be more difficult to manage when there are constraints on disposable income and savings increase only gradually.

Fourth, in Romania borrowers with low incomes hold a relatively significant share of banks' portfolio. Owing to their high indebtedness, this type of borrower is the most exposed to the unfavourable developments in the interest rate and the exchange rate (Chart 5.16.). Borrowers with net incomes below the economy-wide minimum wage<sup>17</sup> posted the highest indebtedness (62 percent, compared to 37 percent economy wide, median values, in June 2013), and the highest asymmetry of indebtedness, with a more pronounced deterioration trend compared to higher income earners. Low income earners are generally the most exposed to face problems in timely repaying their financial obligations<sup>18</sup>. In Romania, borrowers with monthly net incomes below the economy-wide average<sup>19</sup> call for special attention from the risk management perspective. In the case of both consumer loans and mortgage loans, the indebtedness of non-performing borrowers with monthly net incomes below the economy-wide average is higher than that of total non-performing borrowers. This higher indebtedness is tightly correlated with a higher non-performing loan ratio of below-average income earners (Chart 5.17.).



<sup>17</sup> Borrowers with monthly net incomes below the economy-wide minimum wage are highlighted by the calculation method, namely the distribution of the annual net income in equal tranches.

<sup>18</sup> According to *The over-indebtedness of European households: updated mapping of the situation, nature and causes, effects and initiatives for alleviating its impact*, study conducted in January 2013 by Civic Consulting of the Consumer Policy Evaluation Consortium for the European Commission.

<sup>19</sup> They account for about 60 percent of the number of borrowers, natural entities, and 35 percent of the bank loans granted to households, included in the sample of data available at individual level on both incomes and bank exposures.

<sup>20</sup> Indebtedness is calculated only for households with bank loans, by using constant annuities and without considering co-borrowers. The incomes used refer to December 2012. The coverage ratio is of almost 60 percent of total exposures and 40 percent of the number of borrowers (in June 2013).

<sup>21</sup> Non-performing loan ratio was calculated without borrower contamination (at bank level), by using the exposures in June 2013 and the wage incomes in December 2012.

Fifth, the indebtedness breakdown by currency enhances households' vulnerability in the event of adverse developments in the exchange rate. The share of financial debt in foreign currency, albeit on a slight decrease, continued to be high (67 percent of total, in July 2013). The new measures on lending in foreign currency that were implemented by the National Bank of Romania in 2011 and harmonised with ESRB recommendations at EU level in 2012, as well as banks' tendency to change their lending strategies in order to achieve a more balanced evolution of new business in terms of currency, led to a decline in the share of the new business in foreign currency in total new business flow (47 percent January 2012 – July 2013, compared to 56 percent, during January 2011 – July 2012). Real-estate loans were further granted by banks overwhelmingly in foreign currency (90 percent of real-estate loans, January 2012 – July 2013). The risks related to these real-estate loans in foreign currency are likely to increase, considering that: (i) these loans have very long maturities, and (ii) at present, the interest rates on loans in foreign currency are at historical lows, and the probability that they may increase until the loans mature is high.

Sixth, indebtedness has remained relatively widespread across Romanian households and debt is generally contracted on the long term: (i) 4.31 million persons were indebted to banks and NBFIs in June 2013, accounting for 43 percent of the active population; (ii) the average loan duration is 21 years for mortgage-backed exposures and 6 years for non-mortgage consumer loans, respectively, and (iii) the value of indebtedness with banks and local NBFIs (including externalised loans) is significant (lei 115.3 billion in June 2013, down from lei 116.5 billion in December 2011). Overall, households' demand for both consumer loans and real-estate loans fell marginally in December 2011 – June 2013, in line with the deleveraging process unfolding in the EU<sup>22</sup>.

(B) Households' net debtor foreign exchange position<sup>23</sup> towards the financial system – the second important vulnerability of households' balance sheets – has broadly the same features as indebtedness: its level has remained high (lei 28.3 billion in June 2013, Chart 5.18.), but entered a downward path starting with 2012, with the breakdown of households by income showing considerable differences. The short foreign exchange position is owed to households' indebtedness especially in foreign currency, while saving is primarily made in the national currency. The risks related to this foreign exchange position materialised partly into higher non-performing loan ratios for loans in foreign currency than for those in lei (for further details, see Chapter 5.2. "Risks stemming from the households' sector"). Improving policies of managing lending risks, overall, and especially foreign currency financing risks will cause the downward trend of the short foreign exchange position to continue amid the unfolding deleveraging process. Likewise, the change in the lending conditions applied by the First Home Programme, stipulating that new businesses should be granted in national currency only, is likely to contribute to the improvement in the mentioned vulnerabilities.

(C) Households' net creditor position towards the national and international financial system<sup>24</sup> consolidated steadily in 2012 and the first half of 2013, against the background of the slight fall in indebtedness and the further increase in bank saving, both developments being characteristic of the deleveraging process across the EU (Chart 5.18.). This evolution also contributes to improving households' capacity to service their debt. Nevertheless, the mentioned positive effect is most likely

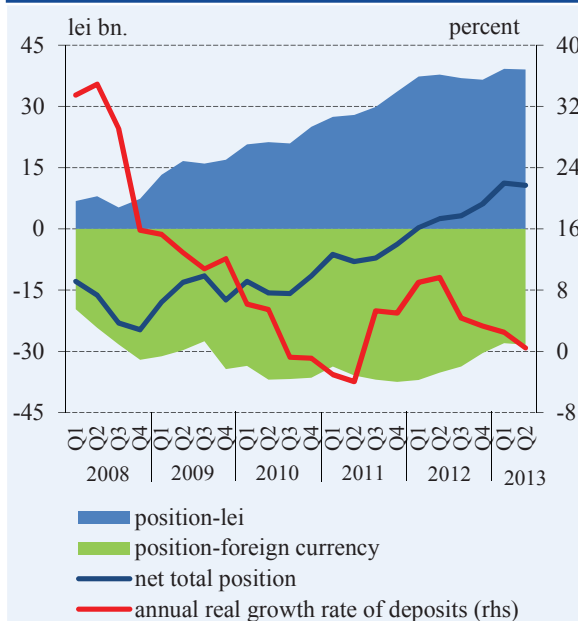
<sup>22</sup> For example, in the euro area, the negative dynamics of household lending are to a larger extent determined by the lower demand, than by supply-side constraints (ECB, *Financial Stability Review*, May 2013). Home ownership in Romania is above the EU average and the euro area average respectively (96.6 percent compared to 70.9 percent and 67 percent respectively in 2011, according to Eurostat) which is largely indicative of households maintaining their demand for real-estate loans.

<sup>23</sup> Households' position towards banks and NBFIs was calculated as the difference between total deposits made by households with banks and the total loans granted by banks (including externalised loans) and NBFIs to households. The short foreign exchange position is equivalent to the net debtor position on the foreign exchange component.

<sup>24</sup> The calculation included bank loans and deposits, loans from NBFIs and externalised loans.

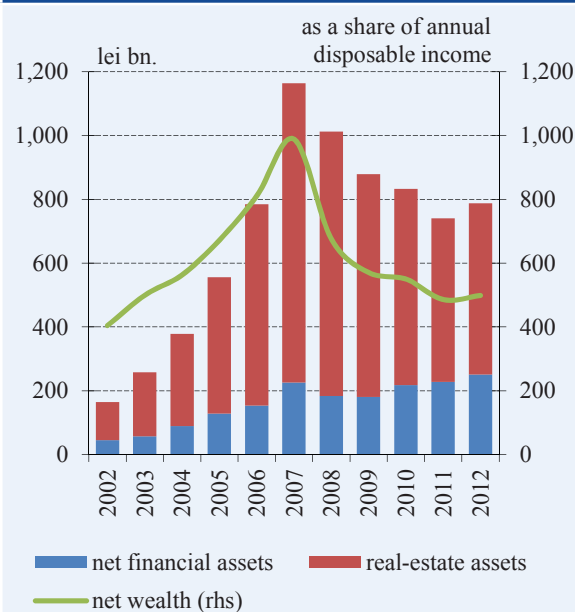
asymmetrical at individual level. The persons with incomes below the economy-wide average net wage are highly indebted (Chart 5.16.), while having a lower capacity to service their debt (Chart 5.17.). The saving potential of this category of households is affected, generating most probably a net debtor position at individual level.

**Chart 5.18. Households' position towards banks (including externalised loans) and NBFIs**



Source: NBR, NBR calculations

**Chart 5.19. Households' net wealth**



Source: NIS, FSA, NBR calculations

(D) The further advance in households' saving with banks, although posting downward annual growth rates, contributed to alleviating the related risks to financial stability and, implicitly, to the increase in riskless liquid financial assets. Saving is largely made for prudential reasons. The annual dynamics of bank deposits continued to be positive in real terms in 2012 and the first part of 2013 (4.2 percent in December 2011 – July 2013, Chart 5.18.). The deceleration in the growth rate of deposits took place also amid households' relative decline in potential saving resources<sup>25</sup> (8.3 percent in 2013 Q1, compared to 9.5 percent in 2012 Q1).

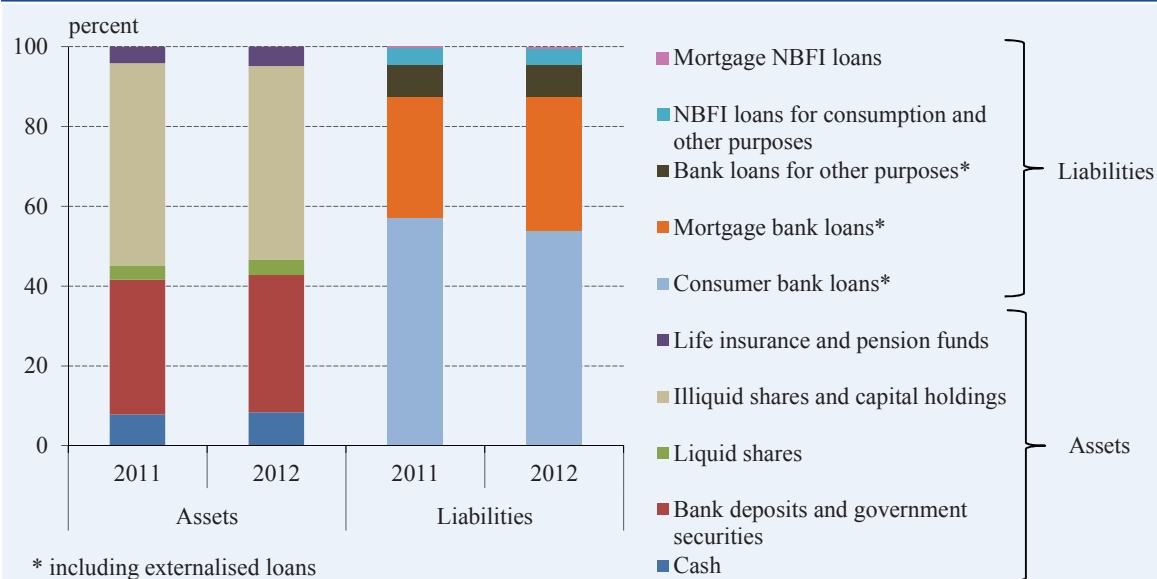
The prospects for further saving are mixed and, most likely, saving will be supported at aggregate level by higher income earners. The factors that favour an increase in saving are: (i) the maintenance of the precautionary saving motivation and the need to set up reserves in order to ensure the debt service of the loans taken, in the context of the uncertainties relative to developments in unemployment; (ii) the slight improvement of expectations on saving for June 2013 – June 2014, more pronounced (ever since 2010) for above-average income earners, than for below-average income earners<sup>26</sup>; (iii) the maintenance of more restrictive lending standards, which imply a higher advance for getting loans, and (iv) households becoming more aware of the fact that the incomes due from the current government pension scheme (Pillar I) depend on the contributions by prospective employees (similarly to the situation in most EU countries), which advocates a supplementary saving method on own behalf.

<sup>25</sup> According to NIS surveys on *Household income and expenditure*, the ratio of potential saving resources was calculated as a ratio of household income minus expenditure to total income, July 2013.

<sup>26</sup> The European Commission survey on consumer confidence indicator, June 2013.

Structural analysis by household income shows that saving is heterogeneous, with higher income earners saving probably the most (below-average income earners have a weaker saving intention and find it more difficult to manage their financial situation<sup>27</sup>). As a matter of fact, the financial crisis has strongly affected the saving capacity of low income households. In the pre-crisis period (end of 2008), the persons with incomes in the first quartile (those with low and very low incomes) would describe their financial situation as more favourable to saving compared to households with incomes in the second and third quartiles. Once with the outbreak of the crisis, households with incomes in the first quartile witnessed the largest deterioration in terms of their saving capacity.

**Chart 5.20. Breakdown of households' financial assets and liabilities**



Source: NIS, FSA, NBR calculations

The increase in bank saving had a favourable effect on both the breakdown and the dynamics of households' net wealth (Chart 5.19.). The expansion in bank deposits, alongside the advance in holdings of cash and government securities, improved liquidity and reduced the risk of households' financial assets (Chart 5.20.). The share of riskless liquid assets<sup>28</sup> in total financial assets continued to increase during 2012 (to reach 43 percent of total financial assets). The pick-up in bank deposits and in the other liquid assets, concurrently with the reduction of debt, led to a faster increase in net financial assets, than in real-estate assets and to the reversal of the downward trend in net wealth manifest as of 2008 (net wealth rose by 6.3 percent in 2012, Chart 5.19.).

### 5.2.2. Households' capacity to service debt

Households' debt servicing capacity has continued to decline since the release of the previous report, although at a slower pace than in the preceding period. The non-performing loan ratio (NPL

<sup>27</sup> The European Commission survey on consumer confidence indicator, June 2013.

<sup>28</sup> Cash, bank deposits and government securities.

ratio)<sup>29</sup> reported by banks went up by 2.2 percentage points in December 2011 – June 2013 (from 8.2 percent to 10.4 percent), while the volume of non-performing loans expanded by 28 percent (over the same period). The Romanian banking sector is adequately covered against the risks stemming from household lending: (i) the capital adequacy ratio (14.7 percent, in June 2013) remains significantly above the minimum required value<sup>30</sup>; (ii) the IFRS provisioning coverage was 68.7 percent (in August 2013), while the expected risks were almost entirely covered by NBFIs provisions supplemented by prudential filters<sup>31</sup> (96.3 percent, in August 2013), and (iii) the value of the collateral in banks' portfolio remains large enough to manage risks in the event of unfavourable developments (the LTV indicator<sup>32</sup> for real-estate loans reached almost 85 percent, in June 2013, with the increase being also determined by the collateral revaluation).

The prospects on households' debt service capacity are mixed, but seem to indicate overall a slowdown in the dynamics of non-performing loan ratio (or even a decrease of the ratio if banks implement broader measures for cleaning their balance sheets) in the future. The main signs showing households' improved debt servicing capacity are: (i) the recovery rate<sup>33</sup> of loans overdue for 1 day to 90 days rose slightly in 2013 H1 (84 percent compared to 82.5 percent in 2012), and (ii) the number of borrowers<sup>34</sup> that posted for the first time payment delays of more than 90 days in January 2012 – June 2013 diminished (by 6.4 percent compared to the same year-ago period). The persistence of non-performance is indicated by: (i) a significant share (about 40 percent) of borrowers that become non-performing continue to be non-performing for at least two years; (ii) the rescheduling measures taken by banks with a view to improving the quality of non-performing loans have so far failed to reach their full potential (for further details, see Box 1 entitled "Credit risk management techniques"); (iii) foreclosure usually takes a long time (24 months for non-mortgage consumer loans and about 18 months for mortgage-backed consumer loans<sup>35</sup>), and (iv) credit institutions expect an increase by about 10 percent in the volume of non-performing loans in 2013 H2<sup>36</sup>, with the rise being more pronounced for mortgage-backed loans.

Structural analysis of non-performing loans shows the persistence of three vulnerabilities identified in the previous report, which are closely connected with the challenges relating to the structure of households' indebtedness. First, the credit risk for the foreign currency portfolio continued to increase at a faster pace than the risk related to the domestic currency portfolio. The non-performing loan ratio of foreign currency loans reached 11.1 percent in June 2013 (compared to that of

<sup>29</sup> Unless otherwise specified, in Chapter 5 the non-performing loan ratio (NPL – non-performing loans) is defined as the share of loans held by borrowers with payments overdue for more than 90 days (with debtor contamination) in total loans granted. The definition draws on the information in the database of the Central Credit Register (CCR). The main difference between this definition and that for the "Loss 2" indicator (used in Chapter 3.2. "The banking sector") is that overdue interest is not taken into consideration, since such data are not reported to the Central Credit Register. The definition in this chapter enables an in-depth analysis of non-performance. The difference between the non-performing loan ratio calculated under this section and the "Loss 2" indicator is of 1.8 percentage points for the entire portfolio of loans to households (namely 10.4 percent, compared to 12.25 percent, in June 2013).

<sup>30</sup> The minimum prudential level aimed at by the NBR since the outbreak of the international financial crisis is 10 percent.

<sup>31</sup> The coverage of non-performing loans by IFRS provisions and prudential filters related to this category was calculated as a ratio of IFRS provisions and prudential filters allocated to non-performing loans only to non-performing loans recorded by households under "Loss 2".

<sup>32</sup> According to the *NBR's Bank Lending Survey*, August 2013.

<sup>33</sup> The recovery rate is the actual probability to group loans into lower overdue buckets (the bucket with 0-day delays in this case) or their keeping in the same bucket compared to the initial moment, over the course of one year. The readings refer to loans worth more than lei 20,000, as reported by the Central Credit Register.

<sup>34</sup> Borrowers with a cumulative exposure of over lei 20,000 lei that are registered with the Central Credit Register.

<sup>35</sup> See Box 1 entitled "Credit risk management techniques".

<sup>36</sup> According to the *Questionnaire on Loan Portfolio Management Techniques*, May 2013.

lei-denominated loans which stood at 8.9 percent), up 2.5 percentage points compared to December 2011 (Chart 5.21.). The volume of non-performing loans in foreign currency rose by 32 percent during the same period (compared to a 20 percent increase for non-performing loans in lei), even though such loans receive greater attention from banks as concerns restructuring (about 80 percent of the volume of restructured loans targeted non-performing loans in foreign currency, outstanding as at May 2013). The vulnerabilities of the foreign currency portfolio arise from: (i) the unfavourable developments in mortgage-backed loans (see further details in Chapter 5.3. “Risks generated by the real-estate sector and mortgage-backed lending”), as well as from (ii) the higher indebtedness<sup>37</sup> of borrowers in foreign currency (49 percent, exceeding the 34 percent indebtedness of borrowers in lei – median values, in June 2013). In order to mitigate the vulnerabilities generated by unsustainable indebtedness, in December 2012, the National Bank of Romania implemented new measures<sup>38</sup>, in line with the recommendations of the European Systemic Risk Board on lending in foreign currencies, for creating the premises for borrowers to be able to service their debt even in the event of unfavourable developments in the exchange rate and the interest rate.

Chart 5.21. Banks' NPL ratio, by currency

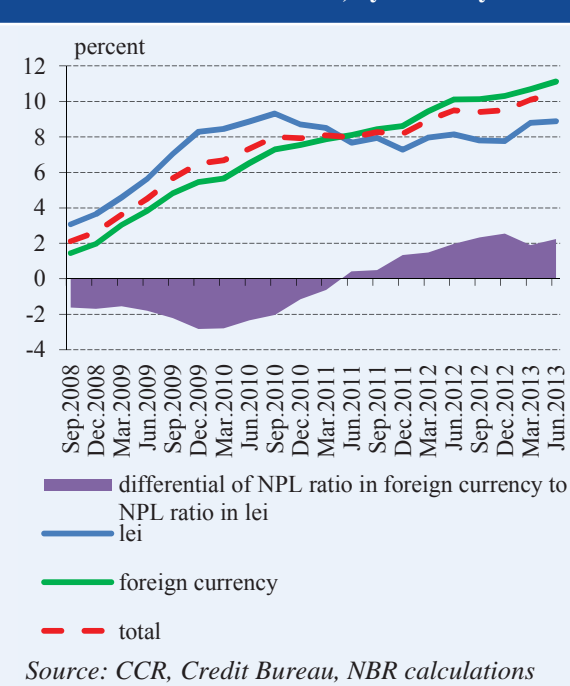
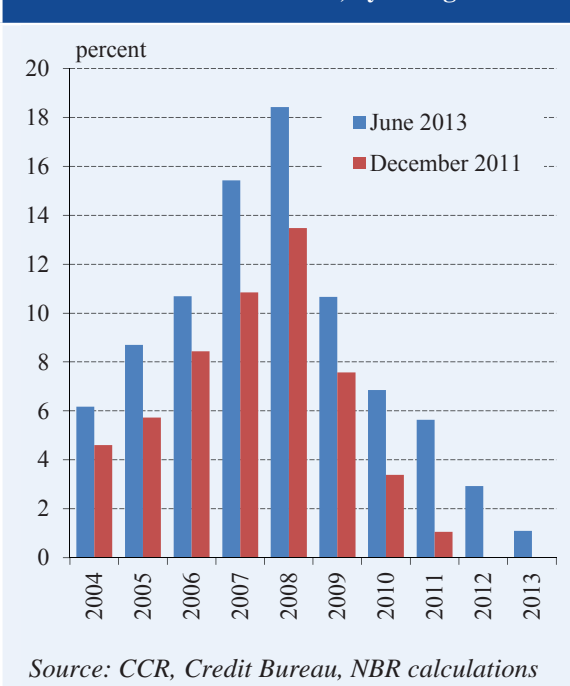


Chart 5.22. Banks' NPL ratio, by vintage



Secondly, borrowers with net incomes below the average economy-wide continue to be the riskiest category for the banking sector, accounting for around 70 percent of the volume of non-performing loans (for both real-estate and consumer loans, Chart 5.17.). The shift to non-performance was tightly correlated with the deterioration of incomes, especially after the outbreak of the financial crisis. The income of non-performing borrowers saw a decrease<sup>39</sup> in 2012 from the outbreak of the financial crisis (2008), while those of performing borrowers remained relatively stable. This evidence

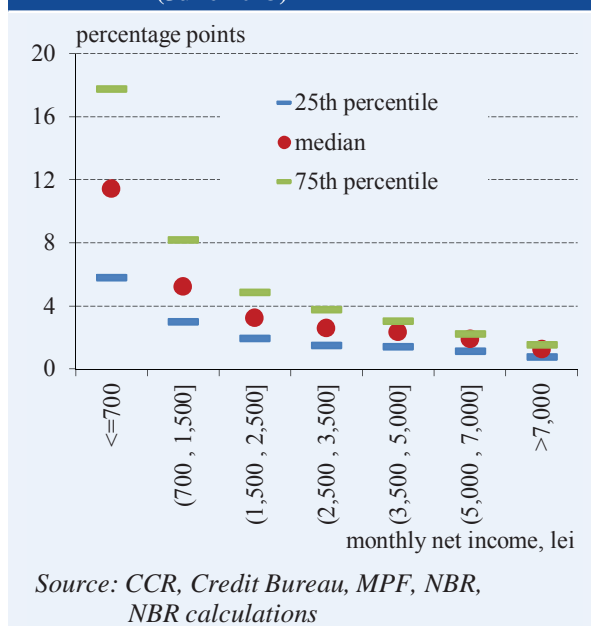
<sup>37</sup> Data used refer to wage incomes in December 2012 and borrowers' exposures in June 2013. The coverage ratio is 72 percent of total exposures to households in June 2013.

<sup>38</sup> NBR Regulation No. 17 of 12 December 2012 on certain lending conditions.

<sup>39</sup> Borrowers with consumer loans who could no longer service their debt in due time in 2012 saw an income correction of over 15 percent, while borrowers with real-estate loans who became non-performing in 2012 witnessed a correction of over 10 percent during the same period (median values). Data were based on a sample of borrowers in credit institutions' portfolios in 2008-2012.

advocates the incorporation of unfavourable scenarios on the disposable income including also when establishing the maximum indebtedness level accepted for real-estate loans.

**Chart 5.23. The impact exerted by a 1pp shock in euro interest rate on the indebtedness of mortgage loan borrowers by monthly net income category (June 2013)**



Running a stress scenario on the average interest rate on loans in euro (which currently stands at historical lows and will most likely post a rise on a medium-term horizon) supports the need for banks to have a pro-active stance in establishing the maximum indebtedness level by borrowers' income and the type of loan (consumer or real-estate). In the context of the extended maturities of household loans and the large share of loans in foreign currency, a 1 percentage point rise in the interest rate on loans in euro would generate an increase in the debt service of 5.8 percent for real-estate loans, 1.3 percent for consumer loans, and 2.2 percent for households' total loans (scenario run for June 2013). The risk stemming from the asymmetry and heterogeneity of borrowers by income is much higher for mortgage loans. Mortgage indebtedness is the most sensitive to a higher interest rate, especially as concerns low income borrowers (indebtedness can increase by up to 11.4 percentage points in the case of borrowers

with the net income below the economy-wide minimum wage following a 1 percentage point rise in the interest rate, Chart 5.23.).

Thirdly, the loans granted under looser conditions in the years prior to the crisis continue to affect the quality of bank assets. The riskiest loan portfolios are those granted in 2007-2008. The non-performing volumes of these exposures account for almost 70 percent of the total volume of non-performing loans (in June 2013). The non-performing loan ratio of this portfolio is significantly higher than the average (15.4 percent for loans granted in 2007, 18.4 percent for loans granted in 2008, compared to the 10.4 percent average value in June 2013, Chart 5.22.) and continues to grow stronger than the average. The non-performance of the mentioned portfolios is expected to increase further, considering that they were primarily granted in foreign currency (about 80 percent), on long terms and feature one of the lowest collateral coverage (for mortgage-backed loans, LTV was about 90 percent in June 2013 for loans granted in 2007 and 99 percent for loans extended in 2008 respectively – for further details, see Chapter 5.3. “Risks generated by the real-estate sector and mortgage-backed lending”). This evidence stands for yet another reason that lending should resume on a sustainable basis, as credit institutions' easing of lending standards before the financial crisis led to a build-up of vulnerabilities. At European level, the implementation of the proposal for a Directive of the European Parliament and of the Council<sup>40</sup> on credit agreements relating to residential property aims at improving the management of the credit risk associated with mortgage-backed loans to households. The Directive adopted a series of proposals, in line with the recommendations of the European Systemic Risk Board formulated

<sup>40</sup> Information based on a proposal for a Directive on credit agreements relating to residential property, <http://register.consilium.europa.eu/pdf/en/13/st08/st08895.en13.pdf>.



in 2011 on foreign currency lending: (i) raising awareness on risks among borrowers, by ensuring transparency of information; (ii) introducing creditors' obligation to assess clients' creditworthiness; (iii) the possibility of early repayment of loans, and (iv) the possibility to convert loans in foreign currency into loans in local currency.

In order to manage the credit risk, banks resorted to a set of measures to clean their balance sheets and manage non-performing assets (for further details see Box 1 entitled "Credit risk management techniques"). One of the solutions most employed was the initiation of foreclosure, applied to approximately 60 percent of the volume of non-performing loans (more specifically, the share stands at 30 percent for consumer loans without collateral and more than 55 percent for mortgage-backed loans, in May 2013<sup>41</sup>). Moreover, there are signals that the recovery rate of non-performing loans is higher in case of foreclosure with seizure of assets (compared to foreclosure without seizure of assets), but the former solution is implemented by a small number of banks<sup>42</sup>, which is motivated by credit institutions in view of the further uncertain prospects for the real-estate market. As regards the cession of non-performing assets, banks anticipate that in 2013 H2 more than 70 percent of the forecasted cessions will relate to non-mortgage-backed consumer loans.

#### Box 1. Credit risk management techniques

For a better understanding of credit risk management techniques employed by banks, the NBR sent a questionnaire on this issue in June 2013. The questionnaire covered 80 percent of all credit institutions operating in Romania.

In view of the need to make credit risk management more effective, particularly following the increase in the non-performing loan ratio, banks resorted to several specific techniques. Credit institutions usually apply a combination of three or four loan portfolio management methods. The most resorted to methods are as follows: (A) loan restructuring (88 percent of the respondents), (B) debt cancellation (75 percent of the respondents), (C) take-over of real-estate assets set up as collateral for non-performing loans (69 percent of the respondents) and (D) cession of non-performing loans to entities outside the group (56 percent of the respondents). Additionally, less resorted to techniques include: (i) cession of performing loans to entities in the same group or from outside it (28 percent of the respondents); (ii) cession of non-performing loans to entities in which the bank is a major shareholder, and (iii) cession to financed entities and/or to entities in which the parent bank or other entity in the group is a shareholder of fixed assets from foreclosure or take-over of collateral.

Every non-performing loan recovery method is preceded by in-house amiable recovery procedures. Implementing such management techniques is viewed as an alternative to foreclosure proceedings, as they are deemed less costly in terms of human resources investment, time and legal fees. These techniques serve to improve financial performance by maximising recoveries within a short timeframe and removal by banks from the balance sheet of some assets with significantly lower economic value than accounting value. The entities being ceded loan portfolios by financial institutions are generally incorporated locally (89 percent) and not included in the bank's/banking group's consolidation scope (82 percent).

(A) The restructuring of loans granted to non-financial corporations and households has gathered momentum over the past three years. A sample comprising nine banks<sup>43</sup> reflects the larger share of restructured loans in total bank credit, from 6.5 percent in December 2010 (9.8 percent in December 2011) to 19.3 percent in

<sup>41</sup> The shares are calculated as a ratio of the loans for which forced sale proceedings were initiated in total non-performing loans for the two categories of loans.

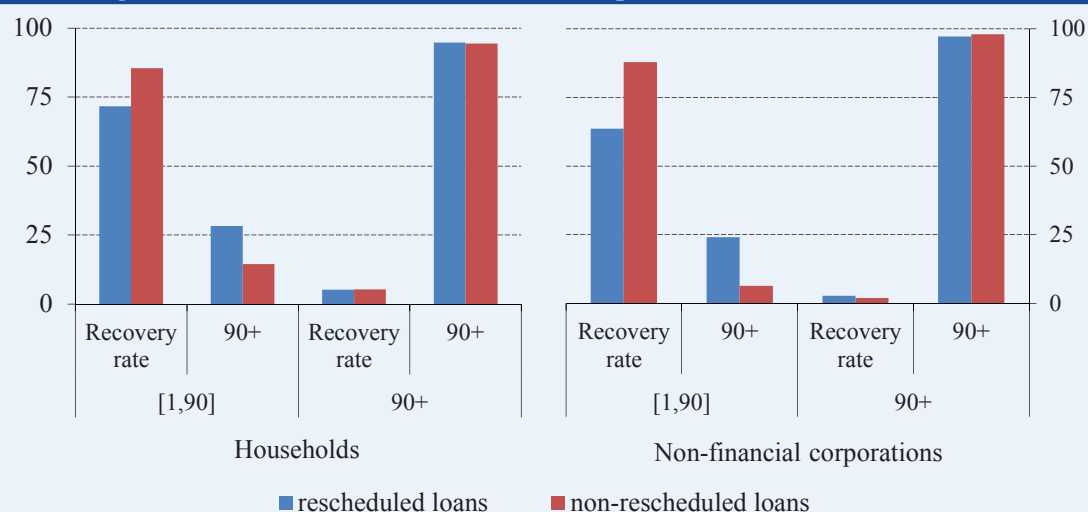
<sup>42</sup> Out of the 32 banks participating in the Questionnaire on Loan Portfolio Management Techniques (May 2013), only a few declared their option for such a measure: five banks in the case of mortgage-backed consumer loans and eight banks in the case of real-estate loans.

<sup>43</sup> This sample ensures comparability in time by drawing on the previous years' surveys. In May 2013, banks in this sample covered approximately 55 percent of total exposure to households and non-financial corporations.

May 2013. According to the latest data<sup>44</sup>, loan restructuring accounts for 17.6 percent of total exposure to non-financial corporations and households, namely 24.1 percent of total exposure to the former and 10.7 percent of total exposure to the latter (May 2013). The breakdown reveals a number of features, as follows: (i) banks resorted to restructuring mainly in the case of foreign currency-denominated loans (66.8 percent of total corporate loans and 81 percent of total household loans); (ii) as for non-financial corporations, the loans overdue for more than 90 days (51 percent of total) are chiefly subject to restructuring, while (iii) in the case of households, the loans overdue for less than 90 days (69 percent of total) make up the bulk of restructured loans.

Loan rescheduling, one of the most resorted to restructuring methods, has not proved very efficient in improving borrowers' repayment behaviour. For both households and non-financial corporations, the rate of recovery to the performance bucket of rescheduled loans between 1 and 90 days past-due is lower than the recovery rate of the loans for which no contractual changes were made. Moreover, rescheduling does not lead to a significant improvement in non-performing loans either, as recovery rates are relatively similar. It also appears to be driven by the credit institutions' concern to reduce additional provisioning requirements).

**Average annual probability of transition by overdue bucket for loans worth more than lei 20,000 granted to households and non-financial corporations (June 2013)**



Note: For non-performing loans (90+), the recovery rate was assimilated to the exit from this overdue bucket. The analysis looked at the annual evolution of rescheduled loans compared to those for which no contractual changes were made; the initial moment is not necessarily that when rescheduling measures were taken.

Source: CCR, NBR calculations

(B) Debt cancellation remains one of the procedures that banks avoid, even though most credit institutions cited their marginal resort to this method and their intention to use it in the future as well.

(C) The take-over into banks' balance sheet of real-estate assets pledged as collateral for non-performing loans is done mostly by purchasing the fixed assets at public auction, as banks seek to avoid collateral sale at too low a price. Goods are acquired at 75 percent or more of their market value in order to be sold at a later date. Banks avoid the acquisition of hard-to-sell goods, such as dilapidated land or buildings. The total market value of assets acquired in exchange for claims by end-May 2013, as indicated by respondents (directly or via entities included in the consolidation scope), stood at lei 833 million, whereas their purchase value came in at lei 817 million (0.2 percent of bank assets). Ten banks stated their intention to acquire assets at an estimated market value of lei 309 million and a purchase value of lei 251 million by year-end.

(D) The cession of non-performing loans to entities outside the group is made via disposal of claims or of the non-performing loan portfolio after all the internal management techniques have been explored. Among the indicators helping to identify the non-performing loans slated for sale is the level of delinquency, the loan value, the quality of collateral and the borrower's job profile or core business.

<sup>44</sup> Data on restructuring (May 2013) cover 68 percent of banks (accounting for 96 percent of loans to the private sector, 93 percent of loans to non-financial corporations and 99 percent of loans to households).

### 5.3. Risks generated by the real-estate sector and mortgage-backed lending

*The analysis of banks' mortgage-backed loan portfolio is indicative of three challenges: (A) to preserve mortgage collateral at an adequate value, especially that mortgage loans make up the bulk of bank assets, (B) to ensure adequate management for the growing risk stemming from mortgage-backed lending, including to strike the right balance between costs and benefits of various solutions to manage non-performing loans and (C) to improve bank policies as regards the type of collateral required in lending.*

(A) Mortgage-backed loans<sup>45</sup> make up the majority of banks' loan portfolio (67 percent of total loans to companies and households, equivalent to lei 147.4 billion in June 2013). Lending based on such collateral was more widely resorted to by non-financial corporations (72 percent of banks' corporate loans); as for household financing, mortgage-backed loans accounted for 60 percent in June 2013.

Considering the large share of mortgage-backed loans in the bank portfolio, the related collateral needs to remain at an adequate level so as to counter the risk of a downturn in real-estate asset prices. The recent correction in housing prices has caused a reduction in the collateral coverage of real-estate loans to households (LTV ratio rose from about 78 percent in December 2011 to 85 percent in June 2013)<sup>46</sup>. Turning to corporate loans, the LTV worsened over the same period from 79 percent to nearly 90 percent<sup>46</sup>.

The LTV ratio proved an important element of debt servicing, which calls on credit institutions to maintain it at prudent levels. According to banks<sup>47</sup>, loans to households (both mortgage-backed consumer loans and real-estate loans) overdue for more than 90 days usually posted larger differences between the LTV ratio at the loan origination date and the current LTV level (May 2013), possibly also as a result of non-performing loan concentration in the period that saw the sharpest house price corrections. Moreover, these loans, which were extended when LTV requirements were rather loose (particularly in 2007-2008, Chart 5.24.), reported the highest non-performing loan ratio (15 percent against 9.1 percent on an aggregate basis in June 2013), accounting for the prevailing share, i.e. 75 percent of non-performing loan stock.

The National Bank of Romania took steps to ensure an adequate LTV ratio for the new business and for the LTV ratio related to outstanding loans to capture the unfavourable developments in the prices for real-estate assets held by banks as collateral. First, in line with the ESRB recommendations on lending in foreign currencies at the EU level, a new regulation on lending to households and companies was issued in December 2012. It contains explicit provisions on establishing the LTV ratio based on the borrower's capacity to cover the exchange rate risk through wage income, which is differentiated by currency (lei, euro, and other – NBR Regulation No. 17/2012 on some lending conditions amending and supplementing Regulation No. 24/2011 on loans to households).

Second, in 2012 H1, the external auditors of banks were asked to make an independent assessment of the value of collateral in credit institutions' portfolios. As a result, the value of real-estate collateral

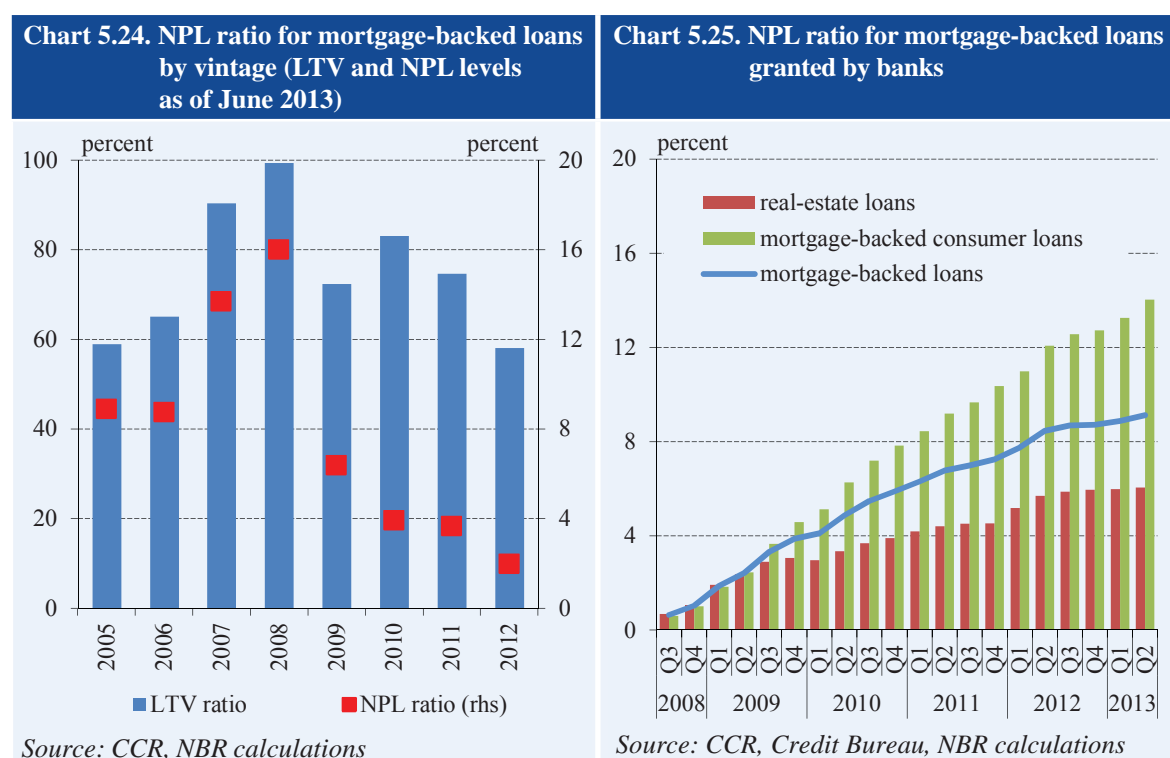
<sup>45</sup> "Mortgage-backed loans to households" include: (i) real-estate loans (for purchasing a dwelling or land), and (ii) mortgage-backed consumer loans (consumer loans for which a prime mortgage was set up as collateral). As for non-financial companies, this category includes the loans collateralised by, *inter alia*, a mortgage.

<sup>46</sup> According to the *NBR's Bank Lending Survey*, August 2013.

<sup>47</sup> According to bank information in the *Questionnaire on Loan Portfolio Management Techniques*, May 2013.

saw a correction, also reflected by a rise in the LTV ratio, and the adjustment was fully covered by an almost EUR 600 million additional credit risk provisioning. With a view to ensuring appropriate recognition of real-estate collateral market value in banks' balance sheets, a new similar exercise, in cooperation with the external auditors, is to be conducted in the course of 2013.

The above-mentioned measures are all the more necessary as the developments in the real-estate market have remained mixed, with a rather negative balance. Thus, housing prices kept declining in 2012 (down 1.3 percent year on year), and banks expect this trend to persist during 2013<sup>46</sup>. The number of residential building permits hit a 7-year low in 2012 (4 percent below the year-earlier level) and contracted by another 2.5 percent (in annual terms) in the first seven months of 2013. The number of completed dwellings decreased in 2012 (down 4 percent over the year before), but bounced back in 2013 H1 (up 4.9 percent). The number of real-estate transactions went up in 2012 (17 percent year on year), but is below its 2007 peak. The increase continued in the first eight months of 2013 (9.5 percent versus the same year-earlier period), also fuelled by the "First Home" programme.



(B) The risk associated with mortgage-backed loans granted by banks was on the rise in the period under review, but the pace of worsening slowed further. In the case of household loans, the non-performing loan ratio<sup>48</sup> reached 9.1 percent in June 2013 from 7.25 percent in December 2011 (Chart 5.25.) and the volume of non-performing loans climbed by 36 percent over the same period. The outlook is mixed: households' balance sheet improved (for further details, see Chapter 5.2. "Risks stemming from the households' sector") and the number of debtors whose loans turned non-performing in the period December 2011 – August 2013 fell by 1.6 percent over the period December 2010 – August 2012. On the other hand, low-income borrowers face growing difficulties in debt servicing and the recovery<sup>49</sup> for non-performing loans declined (from 17.1 percent to 16 percent for

<sup>48</sup> The non-performing loan ratio is defined as the share of loans held by debtors with payments overdue for more than 90 days (with debtor contamination) in total loans granted to households.

<sup>49</sup> For non-performing loans (90+), the recovery rate was the exit from this overdue bucket in the course of one year.

mortgage-backed consumer loans and from 13.1 percent to 11.15 percent for real-estate loans in the first eight months of 2013 against the average for 2012).

Turning to corporate loans, the non-performing loan ratio stood at 25.7 percent (in August 2013), up 9.5 percentage points versus December 2011, and the volume of non-performing loans grew by 60.1 percent in the period December 2011 – August 2013 (compared with 60.7 percent in December 2010 – June 2012). The companies doing business in the sectors that are closely connected to the real-estate market also face serious difficulties in servicing their debts. Construction firms (accounting for 9.5 percent of banks' corporate loan portfolio in August 2013) generate the highest non-performing loan ratio economy-wide (39.7 percent in August 2013, up from 22.1 percent in December 2011). The average number of companies that have recently gone into default climbed by 9.7 percent in the period December 2011 – August 2013 against the period from December 2010 to August 2012. Moreover, these companies' contribution to major payment incidents economy-wide was significant (20.8 percent) and rising (27.2 percent) in the period December 2011 – August 2013. Real-estate firms (constituting 16.1 percent of total corporate loans granted by banks in August 2013) reported a non-performing loan ratio of 22.7 percent in August 2013 (over 13.6 percent in December 2011), even though approximately 25.2 percent of these exposures (lei 4.6 billion) were rescheduled loans.

The relatively high non-performing loan ratio for mortgage-backed loans is also attributed to maintaining in banks' portfolios a significant share of borrowers with overdue loans, including those who proved a low probability to repay their debts. For example, in the case of households, around 70 percent of non-performing borrowers (having taken either real-estate loans or mortgage-backed consumer loans in June 2013) had been in default for more than one year or had recorded multiple defaults. Banks commenced foreclosure proceedings for approximately 55 percent of total non-performing mortgage-backed loans, but tangible results are produced no earlier than two years (legal action starts, on average, six months after loans become non-performing and lasts usually more than 1½ years). Banks have stated that the degree of recovering the loans subject to foreclosure is about 55 percent, but the level is considerably higher in the case of foreclosure with seizure of assets (approximately 70 percent for mortgage-backed consumer loans and 80 percent for real-estate loans)<sup>50</sup>. As far as corporate loans are concerned, credit institutions proceeded to rescheduling, also given their interest in reducing additional provisioning requirements in the short term, but this measure failed to significantly improve the borrowers' repayment behaviour. Around 21.6 percent of the mortgage-backed loans were rescheduled (outstanding stock in August 2013), of which 41.3 percent reported payments overdue for more than 90 days. Banks also resorted to foreclosure proceedings, but the process is lengthy (legal action commences, on average, five months after loans become non-performing and lasts about 22 months, whether the collateral is or not commercial or residential property, or land) and the recovery rate of loans through foreclosure is, on average, 55 percent as well.

Along with the two solutions that banks resorted to on a relatively large scale with a view to managing credit risk (restructuring/rescheduling and foreclosure), two other solutions have so far been rather seldom employed, but they could prove more successful in lowering the non-performing loan stock: disposal of claims and debt cancellations. Such measures, albeit proving effective in balance sheet clean-ups, have mixed effects on banking as a whole. The first positive effect would be a brighter

<sup>50</sup> This solution is employed by few credit institutions: five banks have used it for mortgage-backed consumer loans and eight for real-estate loans (according to the *Questionnaire on Loan Portfolio Management Techniques*, May 2013). This is deemed to be a prudent decision, given the still uncertain prospects on real-estate market.

picture of the Romanian banking sector, with the non-performing loan ratio improving noticeably<sup>51</sup>. For instance, the removal from the balance sheet of the non-performing exposures to the corporate sector (via disposal of claims or debt cancellations) would reduce the sector's non-performing loan ratio from 23.4 percent (in August 2013) to 7.5 percent. The decline would be ascribable to the cut in the large stock of non-performing loans, with a low probability of recovery. Thus, loans overdue for more than 365 days (likely to remain in this overdue bucket, since the debt can no longer be extinguished) amounted to lei 19.7 billion (74 percent of total non-performing loans in August 2013). The volume of non-performing loans (overdue for more than 90 days) falling due in 2013 and already subject to refinancing/rescheduling in the past with a view to improving the borrower's repayment capacity stood at lei 6.6 billion (5.8 percent of total loans granted to non-financial corporations in August 2013)<sup>52</sup>. Non-performing loans falling due in 2013 or already overdue came in at lei 19.9 billion (17.4 percent of total loans granted to non-financial corporations in August 2013).

Another positive effect would be that the aforementioned balance sheet clean-up methods targeting banks would leave economic growth unharmed. The companies that have entered payment default and whose loans fall due in 2013, albeit already subject to refinancing/rescheduling in the past, contributed merely 0.5 percent to the GVA generated by non-financial corporations and had almost 1 percent of all employees in Romania on their payrolls (in December 2012). All non-performing loans due in 2013 or previously were extended to the companies contributing 1.5 percent to the GVA generated by non-financial corporations and accounting for 2.6 percent of the sector's payrolls (in December 2012).

Apart from the above-mentioned positive effects, there may also be negative effects. First, potential future income that a bank may get from the cession of non-performing loans decreases significantly (in the case of the disposal of claims, the bank is paid the price that the buyer of the non-performing claim is willing to pay after bargaining)<sup>53</sup>. Given that credit institutions are increasingly establishing in-house non-performing loan management units, it appears that they deem the benefits of resorting to a balance sheet clean-up to be lower than those associated with no action taken altogether. This stance is also attributed to the fact that most of the non-performing loans (51 percent in June 2013) overdue for more than 365 days have been collateralised with real-estate assets.

Second, balance sheet clean-up would imply a sizeable contraction of the loan stock. For instance, taking such a measure in regard to non-performing loans overdue for more than 365 days generated by companies would bring about a reduction in the loans granted to this sector by lei 19.7 billion (17.3 percent) in only one year (in the years ahead, this effect would weaken markedly). This could be regarded as deleveraging and could spark herd behaviour on the part of foreign creditors.

Consequently, the methods that banks employ to manage non-performing loans should be applied by striking a functional balance between their cost and benefits. For instance, if reputational benefits take precedence (particularly in terms of the non-performing loan ratio), disposal of claims and debt cancellation should prove useful.

<sup>51</sup> Adding to the higher non-performing loan ratio are the low forbearance of the supervisory authority, the further build-up of penalty interest on non-performing loans, as well as Romania's using a stricter definition of non-performing loans. Romania takes account of the IMF's recommended definition, which enjoys higher global comparability, but the EU is expected to make a unitary approach after EBA released a calculation methodology.

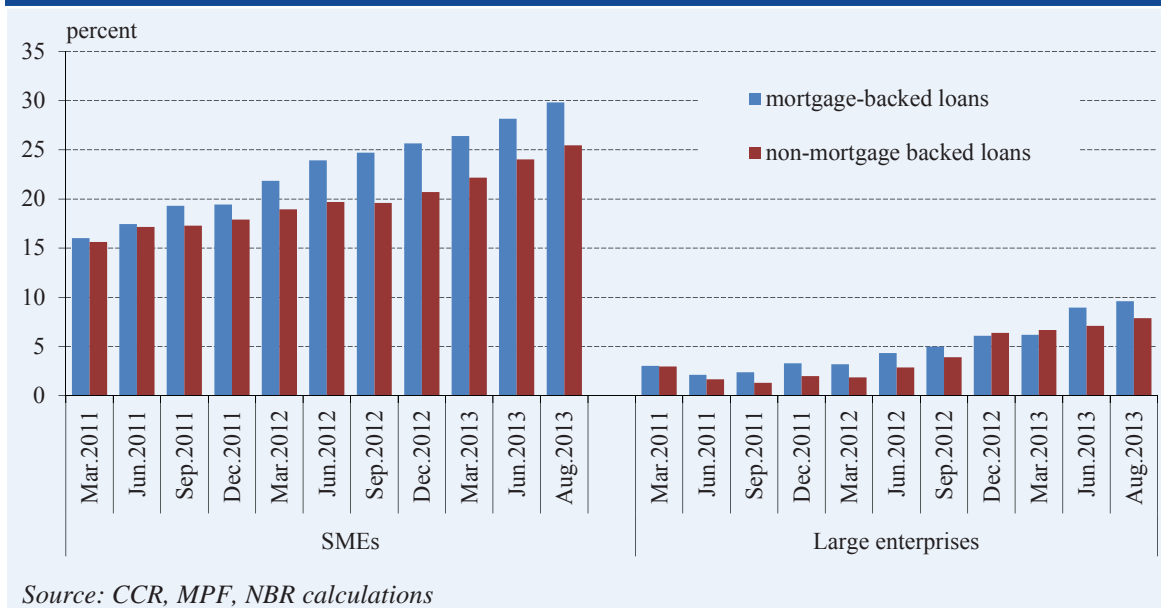
<sup>52</sup> Total non-performing loans due in 2013 or previously add up to lei 18.6 billion, so that potential debt cancellations would have a significantly stronger impact on the stock of loans to non-financial corporations.

<sup>53</sup> Moreover, solvency rate could decline after recognising debt cancellation of non-performing loans on the expenditure side.

(C) Having set up a mortgage as collateral failed, in some cases, to improve the borrowers' debt service behaviour: counterintuitively, the NPL ratio for mortgage-backed loans is well above that for exposures without such collateralisation for most bank loan types. For instance, mortgage-backed consumer loans have become the riskiest among all bank loans to households (the NPL ratio reached 14 percent and exceeded the non-performance relative to non-mortgage-backed consumer loans equalling 13.6 percent in June 2013). This is attributed to the fact that the defaulting borrowers hold several real-estate assets compared to the good payment discipline of borrowers residing in the mortgaged house.

As far as companies are concerned, the NPL ratio for mortgage-backed loans is still higher than that for the loans lacking such collateral (25.7 percent against 17.1 percent in August 2013). This behaviour was manifest for both SMEs (29.8 percent versus 25.4 percent) and corporations (9.6 percent against 7.9 percent in August 2013, Chart 5.26.). Moreover, unlike mortgage-backed loans, the loans for which guarantees from central government institutions or other similar entities were set up as well as the loans for which collateral deposits were pledged<sup>54</sup> enjoy a far better debt service. The non-performing loans for which the aforementioned guarantees were set up make up 8.8 percent and 8 percent respectively of the loan stock (compared with a 25.7 percent NPL ratio for mortgage-backed loans in August 2013).

Chart 5.26. NPL ratio for corporate loans by company size and collateral type



Under the circumstances, a possible solution for improving credit risk management is that the exposures of non-financial corporations for which real-estate collateral is set up should be attached a lower LTV ratio than the loans for which other types of collateral are used (e.g., exposures collateralised by loan guarantee funds, cash collateral, etc.), if the NPL ratios for collateralised loans and non-mortgage-backed loans, respectively, validate the risk differentiation.

<sup>54</sup> This analysis covers the loans extended to non-financial corporations for which, *inter alia*, guarantees from central government institutions or other similar entities, or collateral deposits, were set up.

This measure would entail, *inter alia*, a more prominent role played by loan guarantee and counter-guarantee funds in the collateralisation of loans granted to SMEs. These funds usually operate below potential, since there are significant resources available for boosting their activity. The collateral put forward is highly liquid and its market value remains unchanged (compared with real-estate collateral which has very poor liquidity and its market value changes). Over the medium term, the envisaged solution should be reassessed in terms of the funds' capacity to adequately manage risks and ensure that the negative feedback loops between governments and banks are not strengthened (bearing in mind that loan guarantee and counterguarantee funds are overwhelmingly state-owned entities). Another effect could be banks' lower reliance on mortgages required to be pledged as collateral for the new loans granted to companies in favour of loans collateralised by the borrower's future cash flows, which might result in better lending conditions. Taking such an approach could lay the groundwork for a shift in the banking sector's business pattern towards lending to non-financial corporations by improving the expertise in the assessment of companies' financial statements and of the risks arising from the business plans they submitted to the banks.



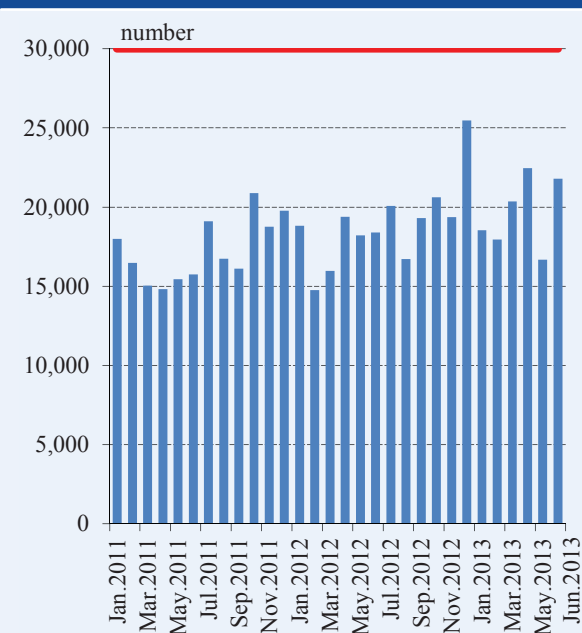
## 6 FINANCIAL SYSTEM INFRASTRUCTURE – STABILITY OF PAYMENT AND SECURITIES SETTLEMENT SYSTEMS

*In the period since the release of the previous report, payment<sup>1</sup> and securities settlement systems continued to operate within adequate parameters, thereby contributing to the strengthening of financial stability. Having in view that one of the NBR's main statutory tasks consists in promoting and overseeing the smooth functioning of the systems, the central bank pursues the implementation of the measures necessary for these infrastructures to perform their critical role within the financial system and the economy.*

*The financial infrastructures encompass various types of contractual, procedural and technical multilateral arrangements, implemented by infrastructure administrators with a view to performing transfers of funds and/or securities between the participating entities.*

### 6.1. Stability of ReGIS payment system

**Chart 6.1. Maximum daily number of transfer orders settled via ReGIS**



Source: NBR

*ReGIS remained stable during January 2012 – June 2013, while the value of transactions entered a downward trend at mid-2012. The participants' aggregate available liquidity exceeded the necessary resources, yet certain participants experienced slight tensions on liquidity during 2012, but the situation improved in 2013 H1.*

The average availability ratio of the services provided by ReGIS in the past 12 months was 99.99 percent and the average daily settlement ratio stood at 99.97 percent. Both indicators illustrate the smooth functioning of ReGIS, free of any serious deficiencies.

The number of transfer orders settled through ReGIS remained well below the projected maximum processing capacity of the system (30,000 transactions per working day), but the maximum daily volume, of more than 25,000 transfer orders, recorded in December 2012

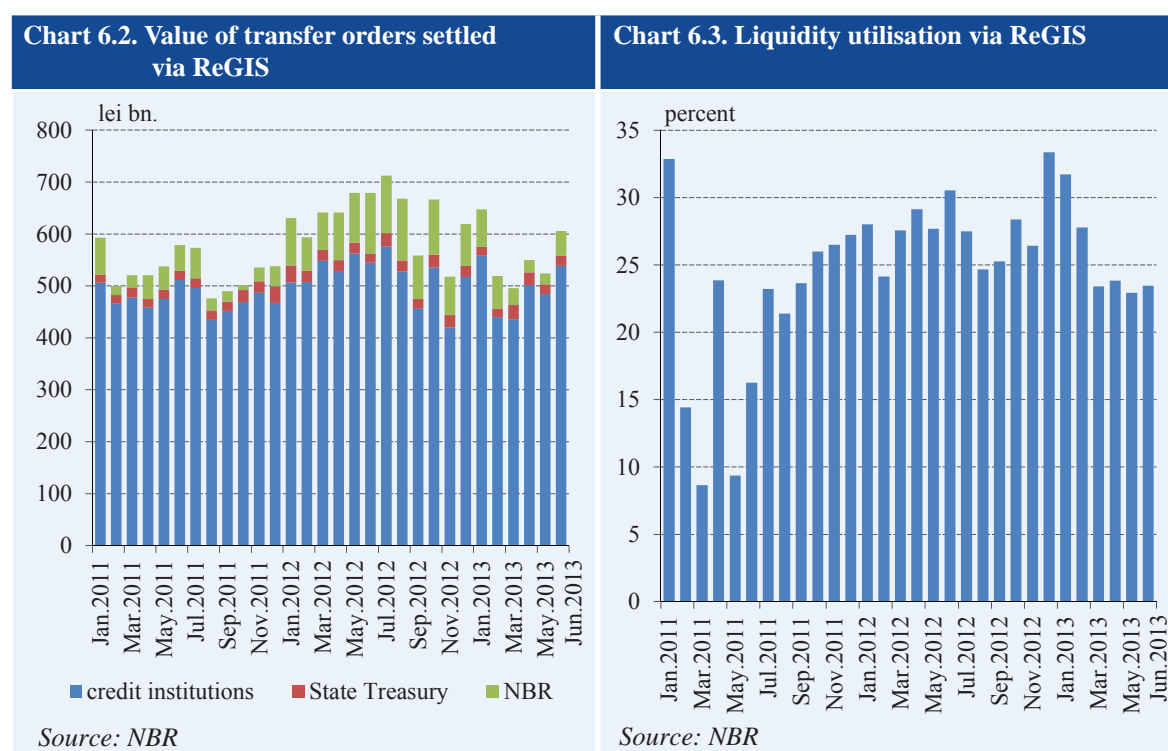
points to the need to raise this ceiling over a medium-term horizon (Chart 6.1.).

<sup>1</sup> In Romania, there are in place two payment systems for the settlement of payment obligations, in domestic currency, in central bank money: ReGIS payment system, operated by the NBR and SENT net settlement payment system, operated by STFD – TRANSFOND S.A.

In compliance with Order No. 637/15 June 2011, issued by the NBR Governor, the two systems shall be governed by Law No. 253/2004 on settlement finality in payment and securities settlement systems, as subsequently amended and supplemented.

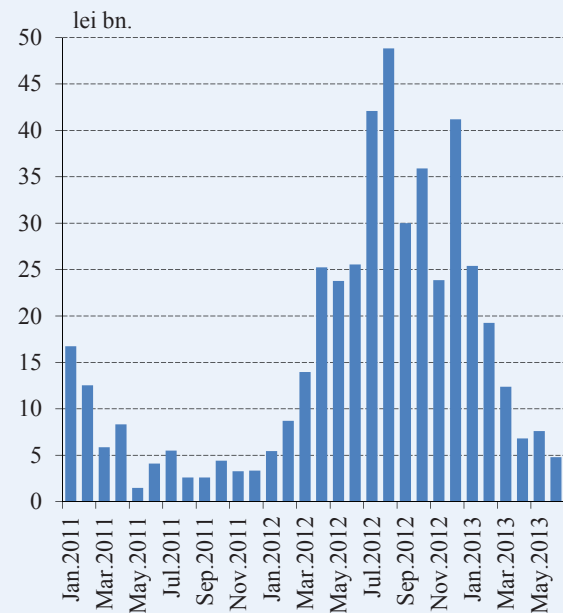
The value of transactions increased in the first part of 2012 amid the pick-up in repo operations of the central bank and the large intraday liquidity volume accessed by credit institutions from the NBR, but subsequently the values settled through ReGIS reverted to the level seen in 2011 (Chart 6.2.). The transactions with the State Treasury hold a very small share in ReGIS. The low GDP growth, along with the stagnation in the financial intermediation ratio, hindered the values of transactions settled through ReGIS from rising significantly.

The liquidity usage ratio within ReGIS has stabilised starting with 2012, after having fluctuated strongly in 2011 H1. The roughly 25 percent average level of the liquidity usage ratio recorded in 2013 H1 shows that the resources of the banking system exceeded the liquidity needs within ReGIS (Chart 6.3.).

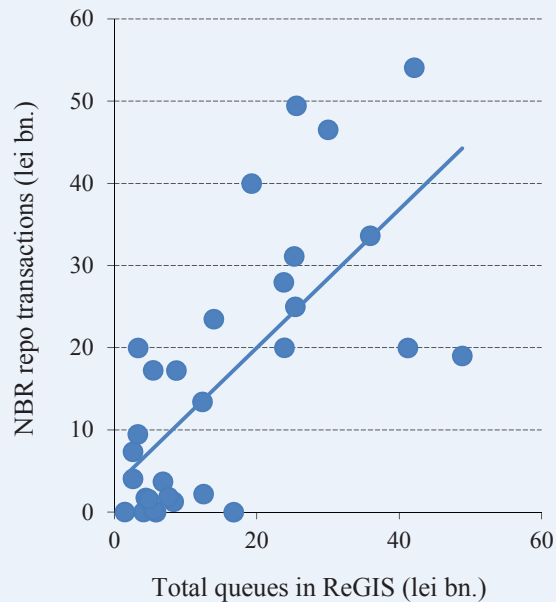


The total maximum value of queues in ReGIS indicates a stronger pressure on the participants' liquidity resources during 2012, mainly in H2 (Chart 6.4.). Even though the liquidity usage ratio did not increase in the period under review, the estimated value of queues illustrates a more pronounced asymmetry of liquidity resources within the system. Tensions almost faded away in 2013 H1, when the participants reporting a resource shortfall balanced their liquidity positions.

The NBR open market operations tend to intensify during the periods when pressures on the resources in ReGIS build up (Chart 6.5.) Both money market volatility and the value of queues in ReGIS are indicators of short-term liquidity in the financial system. The NBR's intervention in the money market via repo transactions when a liquidity shortfall emerged in ReGIS illustrates the high importance of the indicator on total maximum value of queues in ReGIS for measuring liquidity risk in the banking sector.

**Chart 6.4. Total maximum value of queues in ReGIS**

Source: NBR

**Chart 6.5. Relation between NBR repo transactions and the maximum value of queues in ReGIS (January 2011 – June 2013)**

Source: NBR

## 6.2. Stability of SENT – the small-value payment system

During July 2012 – June 2013, SENT remained stable, no major incidents being reported, and the limits set when the system was designed were generally observed.

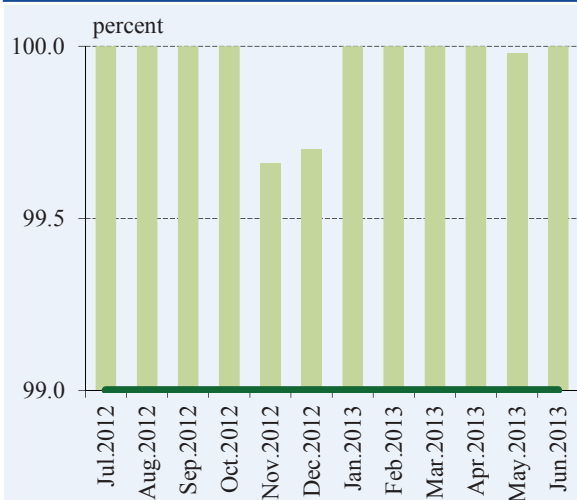
July 2012 through June 2013, SENT saw a series of incidents which led to the drop in the minimum monthly availability ratio of the system, without falling below the level set by the system rules (Chart 6.6.), given that the average monthly availability ratio exceeded 99.94 percent. However, the impact of these operational incidents on the participants and their clients (households and companies) was not material, as it was short-lived and insulated.

In the period under review, payment transactions resulting from the transfer orders initiated by the 42 participants, with an average netting ratio<sup>2</sup> of around 20 percent, were netted on a daily basis through SENT. The system operated within parameters, the netting ratio occasionally nearing the 10 percent level, which is seen as a premise for the emergence of the domino effect<sup>3</sup>, where a participant fails to fulfil its payment obligations to the system (Chart 6.7.). As a credit risk management measure, the system ensures the settlement of all the net positions resulting from clearing, by using a unilateral guarantee scheme involving assets eligible to access central bank operations.

<sup>2</sup> Determined as a ratio of the cumulative value of net debit positions calculated during a clearing cycle to the cumulative value of transfer orders netted during the respective clearing cycle. A low level of the netting ratio suggests a high netting effect.

<sup>3</sup> A netting ratio lower than or equal to 10 percent, a concentration ratio of at least 80 percent and net debit positions of the participants of at least EUR 1 billion are seen by the ECB as factors that may trigger the domino effect; *Assessment of euro retail payment systems against the applicable Core Principles*, August 2005. <http://www.ecb.int/pub/pdf/other/assessmenteuroretailpaymentsystems200508en.pdf>.

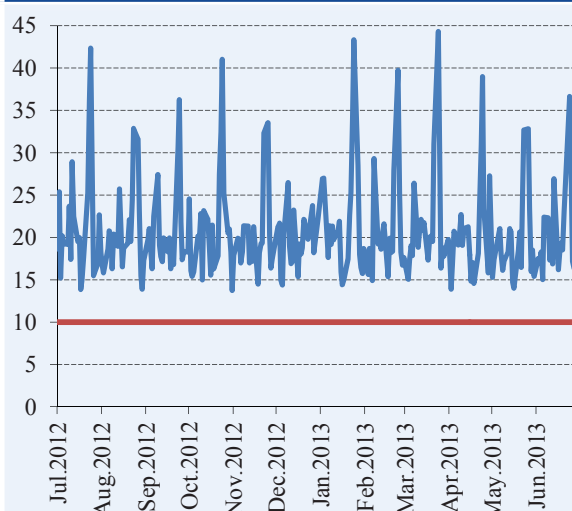
**Chart 6.6. Availability ratio of SENT**



Note: The green flat line stands for the minimum monthly availability ratio of SENT set by system rules.

Source: STFD – TRANSFOND S.A.

**Chart 6.7. Netting ratio of SENT**

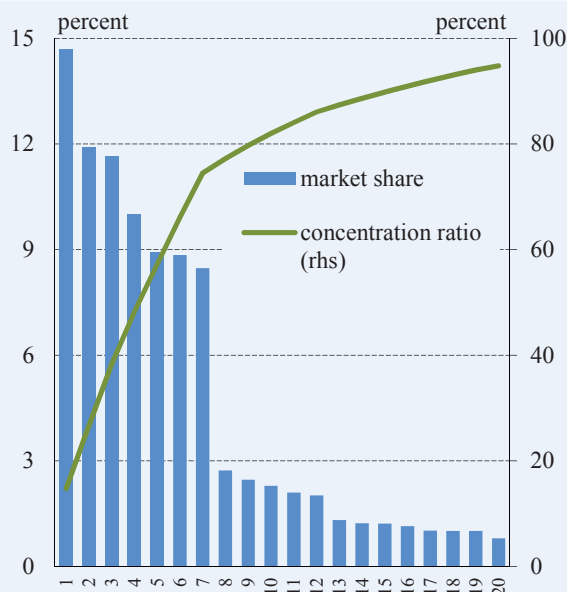


Note: The red flat line stands for the alert threshold indicative of the potential emergence of the domino effect.

Source: STFD – TRANSFOND S.A.

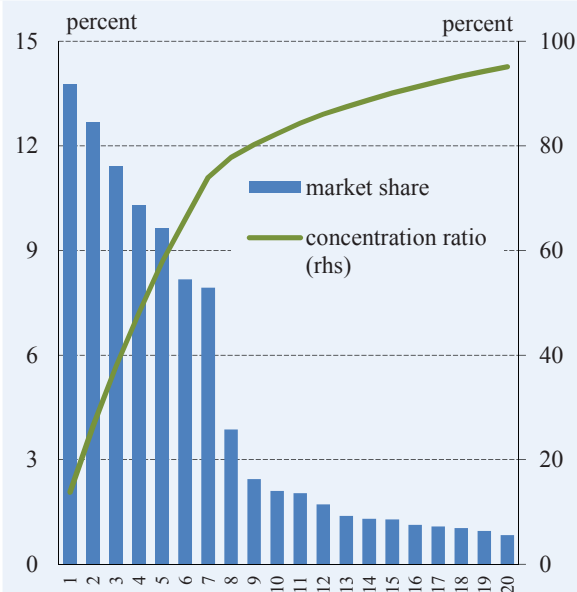
Since 2010, the concentration ratio<sup>4</sup> of the system, calculated based on both volume and value of the netted transfer orders, has remained constant, ranging between 57 percent and 58 percent, (well below the 80 percent threshold that may lead to the emergence of the domino effect). The top three out of the five positions taken into account when calculating this indicator are occupied by the same participants holding comparable individual market shares (Chart 6.8. and Chart 6.9.).

**Chart 6.8. Market share of the participants (volume of transfer orders netted)**



Source: STFD – TRANSFOND S.A.

**Chart 6.9. Market share of the participants (value of transfer orders netted)**



Source: STFD – TRANSFOND S.A.

<sup>4</sup> Calculated as the sum of the top five individual market shares.

The SENT administrator opted for enhancing the activity of the system by amending the rules, i.e. by widening the range of participants eligible for entering the system, on the one hand, and by introducing the indirect participation option, on the other hand.

Both amendments were accompanied by adequate measures for the management of system-related risks, by requesting a legal opinion<sup>5</sup> on the capacity of the participant, where it resides in a country outside the European Economic Area, to fulfill its obligations as a participant in the system, and by making the necessary adjustment to the unilateral guarantee scheme and the settlement pattern.

### 6.3. Securities settlement systems

The securities settlement systems in Romania - DSClear operated by the Sibex Depository, RoClear operated by the Central Securities Depository<sup>6</sup> and SaFIR<sup>7</sup> operated by the NBR – provide post-trading services for the domestic capital market and the government securities market. In assessing their role in relation with the financial market, the smooth and efficient functioning of these infrastructures is a prerequisite for maintaining financial stability and containing systemic risk.

#### The functioning of the securities settlement systems in Romania

The smooth functioning of DSClear, RoClear and SaFIR carried on throughout 2012 and 2013 H1. The main performance indicators posted high levels, illustrating once again the soundness of these systems. Thus, the settlement ratios<sup>8</sup> over the past 12 months stood at 100 percent for DSClear and RoClear and exceeded 99.9 percent (in terms of both number and value of the instructions) for SaFIR. According to the ESCB-CESR Recommendation 3 for the securities settlement systems in the EU, a level lower than 95 percent of the transactions settled (in value terms) is seen to trigger concern. The values of these indicators show that the systems in Romania operate at comfortably safe parameters due to the effective measures aimed at promoting settlement discipline. Moreover, during the past 12 months, the availability ratios<sup>9</sup> for DSClear and RoClear stood at 100 percent and exceeded 99.99 percent for SaFIR. The availability ratio for SaFIR is higher than the level agreed upon with the NBR and STFD – TRANSFOND (the technical operator of this system), no major failures being reported.

<sup>5</sup> The request of a legal opinion is also mentioned in *Core Principles for Systemically Important Payment Systems*, issued by the BIS, January 2001, <http://www.bis.org/publ/cpss43.htm>.

<sup>6</sup> DSClear and RoClear systems are used mainly for depositing securities and settling the transactions in securities within the markets/systems operated by Sibiu Stock Exchange and Bucharest Stock Exchange, as well as on the OTC market.

<sup>7</sup> SaFIR ensures (i) the depositing of government securities issued by the Ministry of Public Finance on the domestic market and the certificates of deposit issued by the NBR, as well as (ii) the registration of other securities eligible for transactions with the NBR, deposited with systems in Romania and abroad, with which various types of connections have been established - RoClear (Romania), Euroclear (Belgium), Clearstream (Luxembourg) and DTC (SUA). Moreover, SaFIR (1) settles transactions made on the primary and secondary markets for government securities, including those resulting from monetary policy operations and the transactions intended as collateralising the liquidity provided by the NBR with a view to improving the settlement flow in ReGIS payment system; (2) manages the collateral associated with the settlement of net debit positions calculated by the administrators of other systems (DSClear and RoClear) and payment schemes (Visa Europe and MasterCard International); (3) processes corporate actions for the securities deposited with SaFIR.

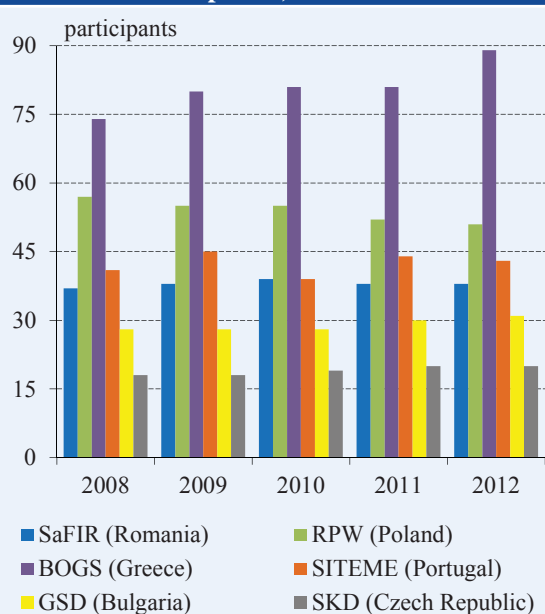
<sup>8</sup> The settlement ratio represents the percentage ratio of transactions settled on the specified settlement date to total transactions within the system, during an assessment period; the indicator measures particularly the effectiveness of the measures intended to promote settlement discipline.

<sup>9</sup> The availability ratio represents the percentage ratio of the actual duration and the scheduled duration of the functioning of a system during the reference period; it is one of the key indicators illustrative of the operational risk management in terms of the technical availability of a system.

### Activity of SaFIR settlement system

In terms of the relevance for the financial sector and the economy in general, SaFIR stands out from among the other settlement systems operating at national level, as a result of: (i) the role of SaFIR in the domestic financial architecture; (ii) the market share of this system in terms of the total value of processed instructions<sup>10</sup>; (iii) the features of the processed transfer instructions<sup>11</sup>; (iv) the impossibility of a fast substitution of the services to the government securities market, and (v) the small size of the Romanian capital market served by DSClear and RoClear.

**Chart 6.10. Number of participants in various systems held by central banks (international comparison, end of period)**



Source: ECB (Securities trading, clearing and settlement, July 2013)

The number of participants in SaFIR remained relatively constant over the past years<sup>12</sup>, which is a relatively different trend from that seen in other systems owned by central banks in the EU (Chart 6.10.), where the number of participants posted ample fluctuations. The constant number of participants in SaFIR can also be attributed to the fact that participating in this system is one of the conditions that credit institutions need to fulfil in order to be eligible for monetary policy operations involving trades in government securities and/or certificates of deposit, as well as for having access to the intraday liquidity facility, provided by the NBR with a view to improving the settlement flow in ReGIS.

The positive balance on government securities issues by the Ministry of Public Finance (MPF) in relation to redemptions reflected in the sustained increase in the total value<sup>13</sup> of the securities registered with SaFIR (Chart 6.11), with its steady growth rate, faster than that

reported by other similar infrastructures, being expected to slow down in the period ahead should the fiscal consolidation carry on. In the past, the funding needs for covering the budget deficit, on the one hand, and investors' reluctance regarding longer-term maturities, on the other hand, pushed the total value of Treasury certificates registered with SaFIR higher. Nevertheless, the efforts made by the MPF in the past two years to improve the term structure of public debt, in favour of medium- and long-term funds, including from the domestic market, contributed to the reversal of the trend manifest in the previous years in the share of Treasury certificates in the total value of the securities registered with SaFIR. At end-June 2013, Treasury certificates accounted for 13 percent of the total value of the securities (the value of Treasury certificates equalled roughly lei 14 billion), compared

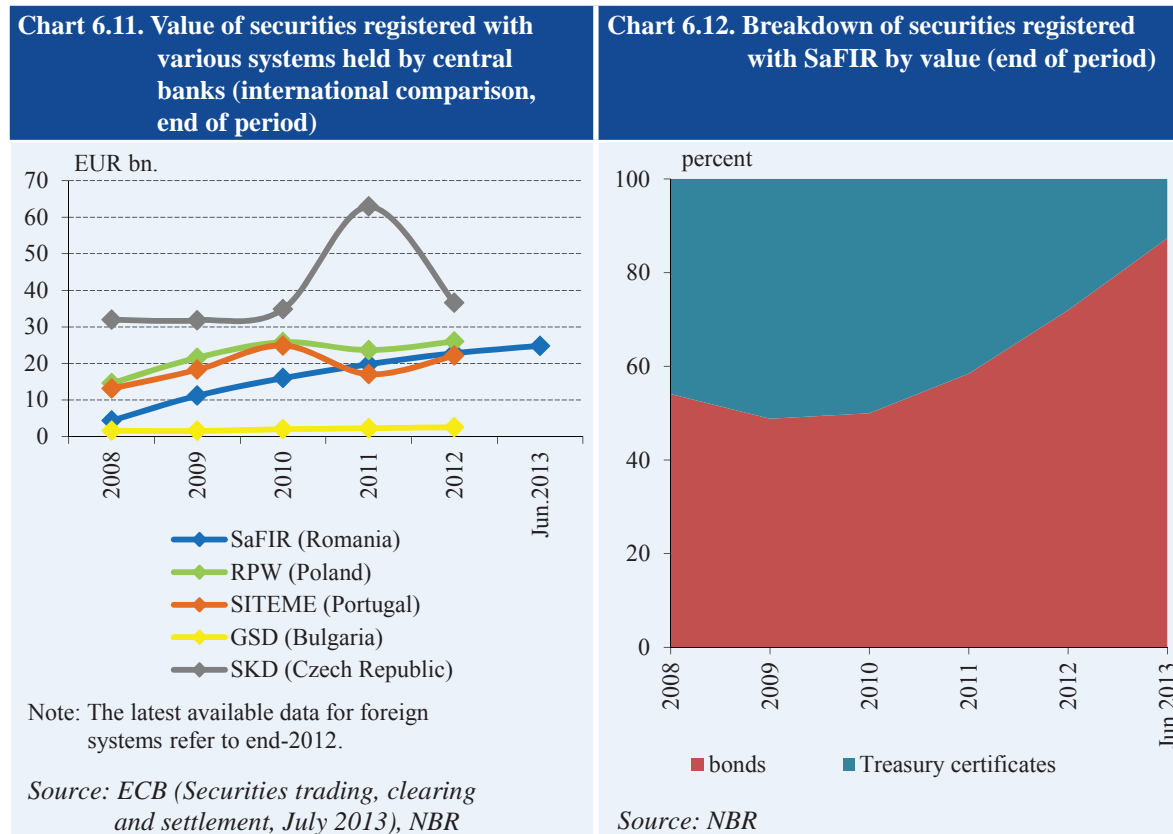
<sup>10</sup> Based on the total value of processed instructions, the market shares of the securities settlement systems in Romania in 2012 were: 99.34 percent – SaFIR; 0.65 percent – RoClear; below 0.01 percent – DSClear.

<sup>11</sup> On the one hand, most of the instructions processed within SaFIR may be seen as critical in terms of the time by which they need to be settled. On the other hand, the average value of instructions settled in 2012 totalled around lei 71 million.

<sup>12</sup> At end-September 2013, SaFIR comprised 38 participants, among which two administrators of central securities depositories and securities settlement systems (Clearstream Banking Luxembourg and Central Securities Depository).

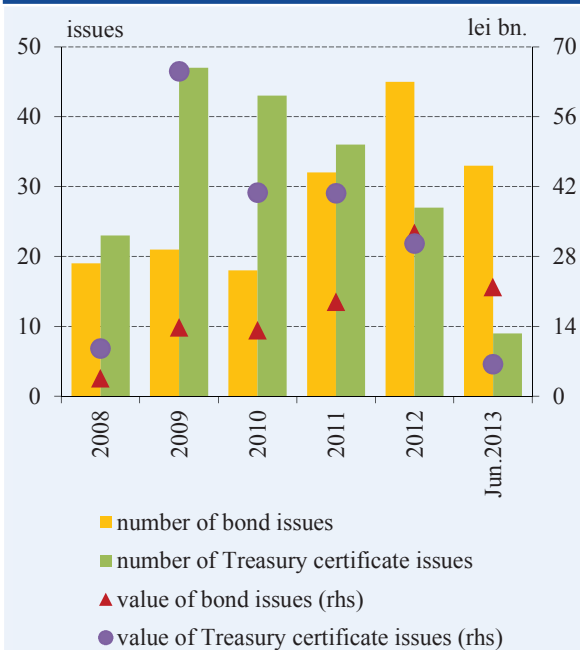
<sup>13</sup> The nominal value of: (i) Treasury certificates and government bonds deposited with SaFIR; (ii) bonds deposited with Euroclear, DTC, Clearstream and RoClear, transferred to and registered with SaFIR.

with around 51 percent in 2009 and 2010 (Chart 6.12.). The breakdown of securities registered with SaFIR was also marginally influenced by making the links with Euroclear and RoClear operational (October 2011 and April 2012 respectively), which allowed the transfer to the system held by the NBR of the foreign currency-denominated government bonds issued by the MPF abroad, as well as of leu-denominated bonds issued by the international financial institutions on the domestic and foreign capital markets<sup>14</sup>. At end-June 2013, the total value of bonds registered with SaFIR was tantamount to around lei 97 billion.



The number and value of issues/redemptions of bonds within SaFIR were almost permanently lower than those of Treasury certificates in the past years, on account of both the latter’s shorter maturities, which involves the frequent rollover of public debt, and the fact that the issues of Treasury certificates are exclusively registered with SaFIR. Year 2012 and 2013 H1 witnessed a different picture as regards the number and value of bond issues in relation to the Treasury certificate issues, following the efforts to raise medium- and long-term funds (Charts 6.13. and 6.14.).

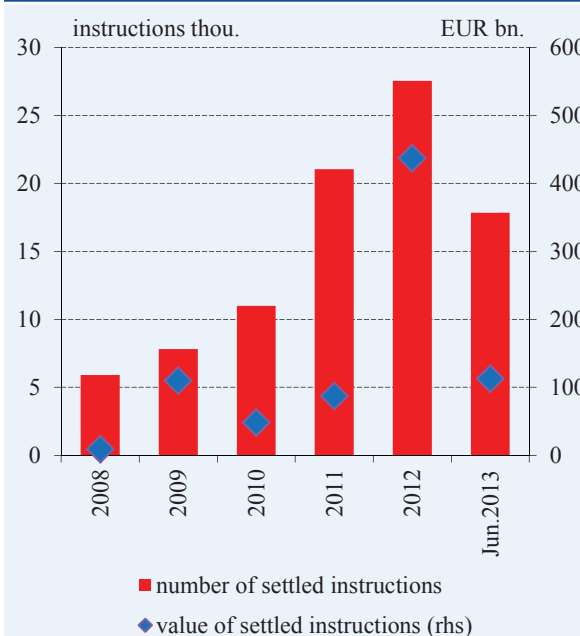
<sup>14</sup> At end-June 2013, the value of securities transferred to SaFIR via the links established with other systems was about lei 444 million.

**Chart 6.13. Number and value of issues registered with SaFIR**

Source: NBR

**Chart 6.14. Number and value of redemptions via SaFIR**

Source: NBR

**Chart 6.15. Number and value of instructions settled via SaFIR**

Source: NBR

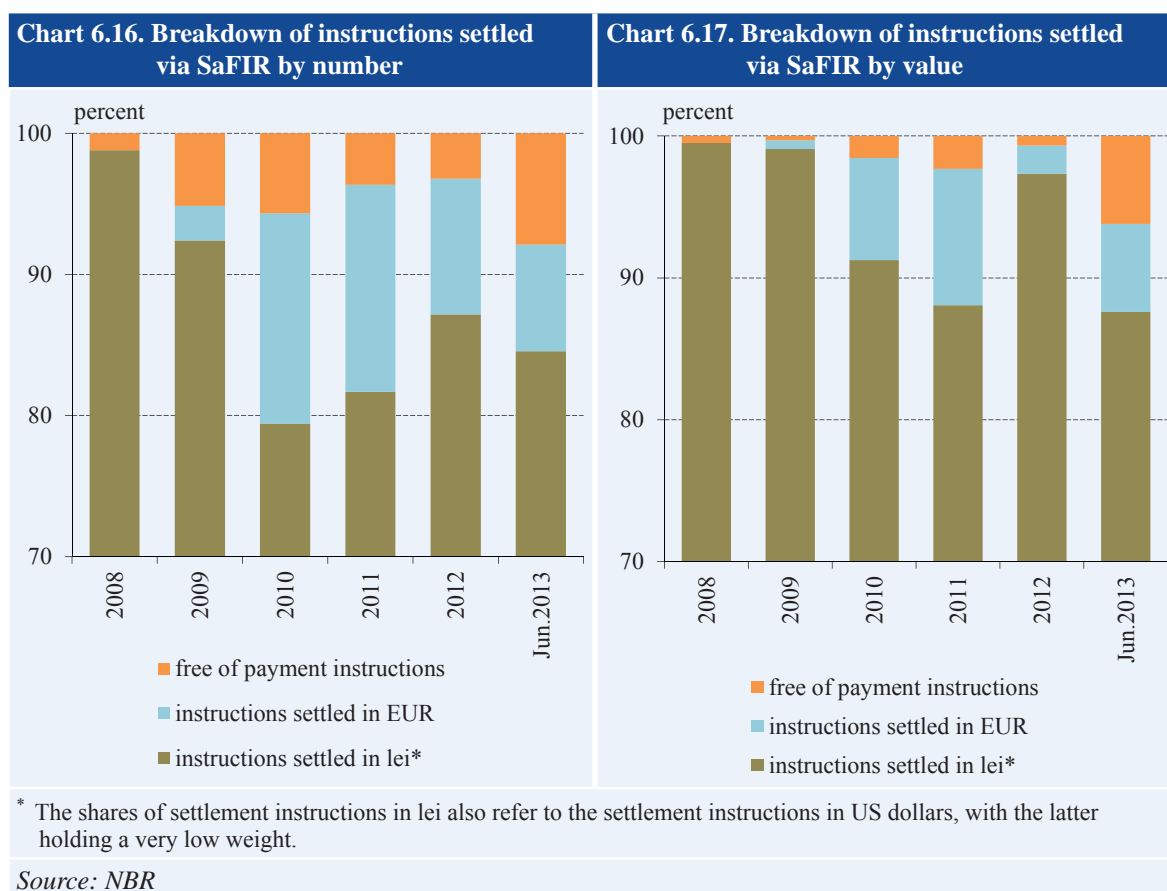
The pick-up in activity on the secondary market for government securities, correlated with the higher value of issues by the MPF and the increase in the NBR's operations, translated in the upward trend in the number and value of instructions settled through SaFIR over the past years (Chart 6.15.), year 2012 witnessing a fast-paced growth of the total value settled via this system (the equivalent of about EUR 437 billion). 2013 H1 shows a year-on-year decline in the value of instructions settled, despite the persistent upward path in the number of instructions settled (around 18 thousands).

The weight of delivery versus payment instructions settled in lei declined in the past years, in terms of both number (Chart 6.16.) and value (Chart 6.17.), given the larger share of instructions settled in euro. In 2012, the downward trend in the share of the instructions settled in lei saw a reversal (especially in value

terms), as a result of the central bank's liquidity injections. On the other hand, in 2013 H1, the number



and value of free of payment transactions increased their weights (to around 8 percent and 6 percent respectively)<sup>15</sup>.



### Changes to the architecture and operational rules of DSClear and RoClear securities settlement systems

Having in view its tasks set by law on the oversight of payment and securities settlement systems, the NBR completed in 2012 the assessments of DSClear and RoClear systems based on the applicable EU standards (ESCB-CESR Recommendations for securities settlement systems in the EU). The assessments focused on the degree of compliance of the architecture of the said systems and their functioning with the relevant EU standards, on the one hand, and on the measures to be taken to correct the deficiencies, on the other hand. The findings of these assessments, presented in detail in the previous report, revealed certain small-scale deficiencies associated with the legal and operational risk management, as well as with the need to mitigate liquidity and credit risk, especially in the case of settlement on a net basis.

Subsequent to the completion of the assessments, the administrators of DSClear and RoClear took the necessary steps to correct the deficiencies identified by the NBR and progress was made with respect to: (i) ensuring compliance of these systems' rules with the applicable primary and secondary legislation; (ii) mitigating the replacement cost risk; (iii) assessing the implications of a shorter settlement cycle for securities transactions anticipated at EU level; (iv) analysing the opportunity

<sup>15</sup> Based on SaFIR rules, free of payment transactions include mainly transfers of portfolios; updates of the participants account balances following the transactions settled in the systems of other central securities depositories; foreclosure of collateral by appropriation; substitutions and margin calls within repo transactions.

to use a central counterparty in order to guarantee the settlement of transactions, and (v) shortening the period of time during which the funds are blocked in the net settlement process. Nevertheless, there are still various aspects for the administrators of DSClear and ROClear to correct in the period immediately ahead, among which: (1) improving the transparency of the legal framework applicable to the systems and their functioning, (2) strengthening the good governance of the systems' administrators, (3) using, for the purpose of system operation, of main and secondary locations with different risk profiles, (4) formulating a preliminary plan to allow the participants' continuity of access to the central depositories' functions even in case of the latter's insolvency. The adoption of the measures aimed at the management of risks specific to net settlement systems, particularly the measures that ensure the necessary conditions for the timely settlement where the participant having the largest net debit position is unable to settle, is of utmost importance. In this respect, the NBR formulated and forwarded to the administrators of DSClear and RoClear specific proposals regarding the adequate level, in terms of relevant EU standards, of the financial collateral set up with the systems, as well as regarding the extension of the lists of assets that can be used as collateral. The implementation of the latter measure proposed by the NBR will also lead to a lower opportunity cost incurred by the participants.

It is noteworthy that most of the above-mentioned unsolved aspects are the subject to new international standards and EU draft regulations so that the consistent and full implementation of all the measures recommended by the NBR following the assessment of DSClear and RoClear systems will contribute to the harmonisation of the new regulations in the field over a reasonable time horizon.

#### **6.4. The extension of central bank's tasks in the field of payments**

The EU regulatory framework in the payments area was amended by Regulation (EU) No. 260/2012 of the European Parliament and of the Council establishing technical and business requirements for credit transfers and direct debits in euro and amending Regulation (EC) No. 924/2009.

The drafting of this regulation was aimed at speeding up the completion of an integrated market for intra-EU electronic payments, such as credit transfers and direct debits in euro. To this end, this piece of legislation sets clear and mandatory deadlines relative to the migration to the SEPA standards for all EU providers of payment services, such as credit transfers and direct debits in euro, and requires the use of technical standards for this type of transactions.

The use of these standards is a precondition for ensuring the full interoperability in the EU and will allow the payment services users to perform, under similar conditions, credit transfers and direct debits in euro across the EU.

In view of enforcing the EU law setting forth, among other, the Member States' obligations to appoint one or several competent national authorities charged with the observance of the regulation, a legislative process was initiated in Romania amending the national legal framework in the field.

## 7 RECENT DEVELOPMENTS AND OUTLOOK

---

*In the context of changes to the micro- and macroprudential regulatory framework across the European Union, the outcome of the assessments on the impact of the CRD IV/CRR package generally points to the compliance of credit institutions in Romania both with the new capital requirements and with the liquidity requirements. The efforts meant to revise the regulatory framework include the establishment of the National Committee for Macroprudential Oversight and, in particular, the development, transposition and implementation of various components underlying the proposal for a Banking Union.*

### 7.1. CRD IV/CRR impact on the Romanian banking system

The ongoing global financial crisis, which broke out in the United States as a subprime mortgage crisis and continued with several bank failures before extending into a sovereign debt crisis, has revealed to national and European authorities the weaknesses of the regulatory and supervisory framework in place, characterised by deregulation, loose capital requirements and unsustainable credit growth. Hence, with a view to safeguarding financial stability, many governments had to provide financial assistance to ailing banks, via bailouts of unprecedented magnitude.

The CRD IV/CRR legislative package adopted by the European Parliament and implementing the new Basel III requirements draws on the lessons of the recent crisis and includes provisions on: (i) applying stricter requirements in terms of capital quantity and quality compared to the previous regulations (Basel I and Basel II); (ii) introducing an additional item to capital requirements, namely the leverage ratio<sup>1</sup>; (iii) introducing minimum standards on liquidity risk, and (iv) introducing specific requirements aimed at mitigating the pro-cyclicality of lending. They are described in further detail below.

The overarching goal of the new rules is to strengthen financial system resilience in each Member State and hence across the entire European Union. The new capital and liquidity requirements ensure that credit institutions are better placed to absorb economic shocks and better prepared to fulfil their financial intermediation task, namely continuing to sustainably finance the real sector. Special importance is also attached to the cooperation among authorities in the Member States and between the latter and various EU bodies, such as the ECB, the ESRB and the EBA. This approach will guarantee the coordination of regulatory and supervisory measures, given the high degree of financial system interconnectedness worldwide and the need to ensure a level playing field for all financial institutions while limiting regulatory arbitrage.

<sup>1</sup> See Chapter 3.2. “The banking sector”, Section 3.2.4. “Capital adequacy”, for a more in-depth analysis of this requirement. Pursuant to the provisions of Regulation (EU) No. 575/2013 of the European Parliament and of the Council on prudential requirements for credit institutions and investment firms, aimed at implementing Basel III requirements, the leverage ratio shall be calculated based on total exposure, i.e. total assets and off-balance sheet items not deducted when determining the Tier 1 capital at book value. The leverage ratio is a supplementary measure to the indicators calculated based on risk-weighted exposures.

### 7.1.1. Capital requirements laid down in CRD IV/CRR

The new prudential regulatory framework sets forth a minimum requirement for Common Equity Tier 1 capital<sup>2</sup> (CET1) equal to 4.5 percent of risk-weighted assets (the minimum requirement according to the current regulation is 2 percent). The total capital requirement (both Tier 1 and Tier 2) an institution will need to hold remains at 8 percent of risk-weighted assets. Some requirements are added to the aforementioned minimum requirements, which need to be met with an additional amount of the highest quality of capital (i.e. CET1 capital), as follows: (i) a capital conservation buffer of 2.5 percent of risk-weighted assets, applicable on a permanent basis to all EU banks; (ii) a countercyclical capital buffer (of up to 2.5 percent), applicable by each Member State depending on the economic cycle; (iii) a systemic risk buffer for the financial sector as a whole or one or more subsets of institutions; (iv) a systemic institution buffer, applicable to both globally and domestically important institutions.

The objective of the capital conservation buffer is to build up reserves in good times so as to absorb losses during a downturn. The requirement is mandatory for all credit institutions and large investment firms. By way of derogation, a Member State may exempt small and medium-sized investment firms from this requirement provided that: a) the decision is fully reasoned and includes an explanation as to why the exemption does not threaten the stability of the financial system of the Member State; b) the exact definition of the small and medium-sized investment firms which are exempt is provided.

#### The countercyclical capital buffer

The CRD IV/CRR package, which has introduced the Basel III provisions into the EU legal framework and is pending transposition into national law, brings to the fore – alongside more conservative capital requirements – the implementation of a countercyclical buffer. The purpose of the tool is to enhance banking sector resilience to potential losses induced by excessive credit growth.

The setup of this buffer during expansionary credit growth, as an addition to the capital conservation buffer, allows for the release of the reserves during the contraction phase of the economic cycle in order to absorb losses, but it also has an indirect positive effect by preventing excessive bank deleveraging. According to Recommendation ESRB/2013/1<sup>3</sup>, the implementation of this countercyclical tool aims to attain an intermediate objective of macroprudential policies, i.e. “to mitigate and prevent excessive credit growth and leverage”. The buffer could help contain the credit growth cycle via a reduction in credit supply and hence a corresponding increase in lending costs.

According to the guidelines<sup>4</sup> released by the Basel Committee on Banking Supervision (BCBS), the starting point in determining the countercyclical buffer should be the credit-to-GDP ratio measured as a deviation from its long-term trend. The national authorities would activate the countercyclical buffer if the credit-to-GDP ratio exceeded an upper threshold set beforehand based on quantitative analyses. However, the signals conveyed by the credit-to-GDP guide should be properly assessed, so as to avoid any unnecessary action or, on the contrary, inaction. The document issued by the Basel Committee proposes the following methodology, developed to assist the authorities in the implementation of this instrument: (1) calculate the aggregate credit-to-GDP ratio<sup>5</sup>, (2) estimate the credit-to-GDP gap

<sup>2</sup> Only common shares are taken into account when calculating CET1, whereas preferred shares are excluded.

<sup>3</sup> Recommendation of the European Systemic Risk Board on intermediate objectives and instruments of macroprudential policy.

<sup>4</sup> *Guidance for national authorities operating the countercyclical capital buffer* (2010). The main variables proposed refer to asset prices, CDS spreads, credit conditions, real GDP growth, etc.

<sup>5</sup> The methodology uses a broad definition of credit, capturing all sources of debt funds for the private sector (including funds raised abroad).

(the gap between the ratio and its long-term trend), using a Hodrick-Prescott filter<sup>6</sup>, (3) set the thresholds for activating the buffer and define the calculation method based on the deviation from the trend<sup>7</sup> and, possibly, (4) supplement the buffer with other macroprudential tools. The buffer should be released in the event of the following scenarios materialising: (i) when losses in the banking system pose a risk to financial stability, and (ii) in times of stress across the financial system.

Empirical evidence generally points to a good predictive power of the credit-to-GDP indicator variable, except for developing countries<sup>8</sup>. The drawbacks of a purely statistical measure call for the need that authorities retain a degree of flexibility at national level<sup>9</sup>. In this vein, the Basel Committee recommendations refer to complementing the assessment based on the credit/GDP guide with additional evidence supplied by indicator variables that help identify credit cycle phases. These variables can be divided into the following groups: (1) macroeconomic or macrofinancial variables likely to capture the build-up of systemic vulnerabilities (credit growth, information on the structure of credit, DSR (debt service ratio)<sup>10</sup>, LTV, equity prices, credit spread, indicators on the country's external position, etc.), and (2) aggregate measures of banking sector performance, for quantifying the sector's vulnerability to external shocks and the potential to generate financial instability (solvency, profitability, liquidity indicators). In line with the CRD IV framework, national authorities may decide on the actual date of applying or releasing the buffer, subject however to the prior notification of activation decisions.

In the context of the national authorities introducing this buffer, pursuant to Directive 2013/36/EU, the ESRB may issue recommendations on the measurement and calculation of the deviation from long term trends of the credit-to-GDP ratio, as well as guidance on other significant variables that indicate excessive credit growth. The authorities shall assess the countercyclical buffer on a quarterly basis and shall implement it gradually, should the national authority pass a decision in this regard, in the period from 2016 to 2018.

Based on the methodology developed by the BIS, the analysis conducted for Romania<sup>11</sup> spanning the period from March 2000 to June 2013 points to excessive credit growth to non-financial corporations and households both during September 2007 – June 2010 and early on into the analysed period (Chart 7.1.). The outcome for Romania highlights several drawbacks of this approach: (i) the short length of available time series impacts the reliability of results; (ii) the sensitivity of results to setting the methodology parameters, with a direct impact on the countercyclical buffer rate; (iii) a possible discrepancy between the credit level and short-term GDP dynamics, manifest June 2009 through June 2010; unfavourable GDP developments and the relatively unchanged bank

<sup>6</sup> The methodology proposes a lambda of 400,000 for quarterly observations, assuming a credit cycle with a longer duration.

<sup>7</sup> The countercyclical buffer (as a percentage of risk-weighted assets) is activated when the credit-to-GDP ratio exceeds its long-term trend by more than 2 percentage points. The buffer will linearly increase, reaching its maximum level (2.5 percent of risk-weighted assets) when the gap between the ratio and its trend is of minimum 10 percentage points.

<sup>8</sup> According to Geršl, A. and Seidler, J. – *Credit Growth and Countercyclical Capital Buffers: Empirical Evidence from Central and Eastern European Countries* (2012), the methodology based strictly on the approach proposed by the BCBS has failed to yield optimal results for CEE countries; instead, the authors suggest an approach that incorporates a country's economic fundamentals in order to identify excessive credit growth.

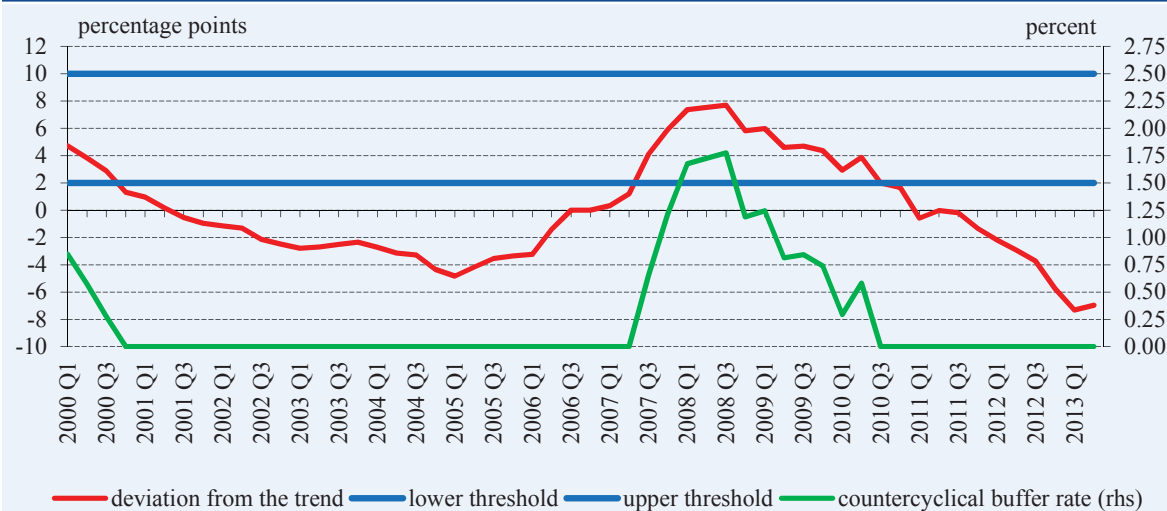
<sup>9</sup> Usually, implementing any macroprudential instrument also raises the issue of opting for the type of approach, i.e. rules versus discretion (Report submitted by the Committee on the Global Financial System (2010), *Macroprudential instruments and frameworks: a stocktaking of issues and experiences*).

<sup>10</sup> According to Drehmann, M. and Juselius, M. – *Do debt service costs affect macroeconomic and financial stability?*, BIS Quarterly Review (2012), DSR tends to peak just before a systemic banking crisis materialises, and during a period of one year before the crisis, this indicator represents a better early warning signal than the one provided by the credit-to-GDP gap.

<sup>11</sup> Credit-related data used in the simulation of results for Romania do not entirely reflect the broad definition of credit, in line with BIS recommendations, covering only domestic bank loans to households and non-financial corporations.

exposures in the context of the European Bank Coordination Initiative launched in January 2009 (whose key objective was, inter alia, preventing the wide-scale withdrawal of external financing), and (iv) the need to complement it with an assessment of the credit breakdown. Had the countercyclical buffer been implemented during the aforementioned period, it would have been activated, without however reaching the maximum value (Chart 7.1.). Irrespective of the approach, there are currently no signals requiring the activation of the countercyclical buffer.

**Chart 7.1. Credit-to-GDP gap in Romania (March 2000 – June 2013)**



Source: Monetary survey, NIS, NBR calculations

The analysis of lending to households and non-financial corporations, complemented by indicators on households' indebtedness level, lending standards, as well as the assessment of credit risk associated with bank lending, have pinpointed the alert credit growth that characterised the years 2007 and 2008. This allowed the NBR to signal the vulnerability on an *ex ante* basis and take further steps towards curbing fast lending growth, particularly in the case of the foreign currency component<sup>12</sup>.

### The macroprudential toolkit for systemic risks and institutions

CRDIV allows the authorities to introduce in the national law additional capital requirements applicable to credit institutions and investment firms, with a view to mitigating (i) systemic risk, and (ii) the risks generated by systemic entities across the entire financial system. The aforementioned additional requirements complement those on the capital conservation buffer and on the countercyclical capital buffer and need to be set up as Common Equity Tier 1. National authorities have three macroprudential instruments available to cover the mentioned systemic risks: (a) a systemic risk buffer, which may be required of all entities making up the financial sector or one or more subsets; (b) a global systemic institution buffer, which may be enforced strictly at a consolidated level; (c) other systemic institution buffer, which includes domestically important institutions and may be enforced, as applicable, at a consolidated, individual or sub-consolidated level. The three buffers are structural in nature and they are not set depending on the economic cycle. As a rule, according to the provisions of the Directive, the above-mentioned macroprudential tools are not cumulative, but rather the highest buffer shall be applicable.

<sup>12</sup> For further details, see Box 3. "Key measures that the National Bank of Romania initiated to curb the fast foreign currency-denominated lending growth in 2001-2010" in the 2011 Financial Stability Report.

The use of this macroprudential toolkit will help achieve the objective of enhancing banks' resilience to endogenous and exogenous shocks, by consolidating their loss-absorbing capacity, thus increasing financial system resilience overall. The larger capital base will also contribute to containing the contagion effect, namely the impact that ailing entities could have on the financial system and the real economy, particularly via the lending channel. Specifically, in good times, the enforcement of additional capital requirements may limit credit supply, thus containing unsustainable growth of asset prices<sup>13</sup>; during economic downturns, higher capital levels ensure a better loss-absorbing capacity, thereby enabling banks to ensure the continuation of the credit flow for the sustainable funding of the real sector, contributing to lower volatility of the gross domestic product.

#### *a) Systemic risk buffer*

Each Member State may introduce a systemic risk buffer in order to prevent and mitigate long-term non-cyclical systemic or macroprudential risks. The systemic risk buffer may apply to domestic exposures, to exposures located in other Member States, and to exposures in third countries. It shall be set in gradual or accelerated steps of adjustment of 0.5 percentage points. The systemic risk buffer rate ranges between 1 percent and 5 percent of the total risk exposure on an individual, consolidated and/or sub-consolidated basis. Moreover, national authorities may decide on setting the systemic risk buffer rate above 5 percent in the event of a significant systemic risk becoming manifest. Different requirements may be introduced for different subsets of the financial sector, depending on the magnitude of the identified systemic risk.

According to the Directive, when requiring a systemic risk buffer to be maintained, the competent authority or the designated authority shall comply with the following: (a) the systemic risk buffer must not entail disproportionate adverse effects on the financial system of other Member States or of the Union as a whole, forming or creating an obstacle to the functioning of the internal market; (b) the systemic risk buffer must be reviewed by the competent authority or the designated authority at least every second year. Before setting a systemic risk buffer rate, the competent authority or the designated authority shall notify the Commission, the ESRB, EBA and the competent and designated authorities of the Member States concerned. If the buffer applies to exposures located in third countries, the competent authority or the designated authority shall also notify the supervisory authorities of those third countries. Where the systemic risk buffer rate is to be set between 3 percent and 5 percent, the national authority shall await the opinion of the Commission before adopting the measures in question. The national authority shall publicly announce the setting of the systemic risk buffer. Member States shall apply the provisions of the Directive from 31 December 2013.

The National Bank of Romania shall assess in the period ahead the appropriateness of setting the systemic risk buffer either across the entire banking sector or for one subset of the sector, as well as the buffer rate depending on the identified vulnerabilities. Where the credit institution is a subsidiary of a parent undertaking authorised in another Member State, the systemic risk buffer shall be set following the stages described in the European Directive (which include the notification of the Commission, the ESRB and, if applicable, the EBA, and the adoption by the Commission of the decision enforcement act).

#### *b) Global systemically important institution buffer*

In line with the Directive, national authorities shall identify global systemically important institutions (G-SIIs)<sup>14</sup> and update the list of identified institutions on an annual basis, while allocating them to

<sup>13</sup> From this perspective, the enforcement of additional capital requirements can reduce *ex ante* the likelihood of crises and/or their magnitude on the financial system and the real economy, both nationally and regionally/internationally.

<sup>14</sup> For the purposes of the Directive, systemic significance is the expected impact exerted by the G-SIIs' distress on the global financial market.

various sub-categories. The result of the analysis shall be reported to the Commission, the ESRB and EBA and to the systemically important institutions concerned. The Directive also sets forth the obligation to disclose the updated list of identified systemically important institutions to the public, as well as the sub-category<sup>15</sup> into which each identified G-SII is allocated. The identification methodology for G-SIIs shall be based on the following categories: (a) size of the group; (b) interconnectedness of the group with the financial system; (c) substitutability of the services or of the financial infrastructure provided by the group; (d) complexity of the group; (e) cross-border activity of the group, including cross-border activity between Member States and between a Member State and a third country. The level of the buffer which may be set by the competent authorities as CET1 may range between 1 percent and 3.5 percent CET1 and apply from 1 January 2016 onwards, on a gradual basis until 2019.

Until the coming into force of the European Directive, the Financial Stability Board is in charge of identifying and publishing the list of global systemically important institutions on an annual basis, using the methodology developed by the BCBS. Based on the list disclosed on 1 November 2012, 28 banks have been identified as global systemically important institutions. The Romanian banking system does not include any G-SIIs, but six of them have subsidiaries/branches in Romania, namely Citigroup, Royal Bank of Scotland, Groupe Credit Agricole, ING Bank, Société Générale, and Unicredit Group.

*c) Other systemically important institution buffer*

Similarly to the procedure stipulated in the Directive for the global systemically important institution buffer, national authorities shall: (i) identify and review on a yearly basis the list of “other” systemically important institutions (O-SIIs), which include domestically important institutions and EU important institutions; (ii) report the list to the Commission, the ESRB and EBA, and to the systemically important institutions concerned, and (iii) disclose the list of identified systemically important institutions to the public.

Alongside the key objective of the buffer, i.e. improved resilience of domestic systemically important institutions, the use of this macroprudential instrument can help (i) address and control concentration risk across the domestic financial system (given the capital surcharge applicable to these entities), and (ii) ensure a level playing field for small and medium-sized entities, since systemic institutions’ lower funding cost is offset by the higher cost of capital.

According to the Directive, systemic importance shall be assessed on the basis of at least any of the following criteria: (a) size; (b) importance for the economy of the Union or of the relevant Member State; (c) significance of cross-border activities; (d) interconnectedness of the institution or group with the financial system. After consulting the ESRB, EBA shall publish by 1 January 2015 guidelines on the criteria for assessing O-SIIs, which shall take into account both the international framework<sup>16</sup> and Union and national specificities. The O-SII buffer shall not exceed 2 percent of the total risk exposures.

Where an O-SII is a subsidiary of either a G-SII or an O-SII which is an EU parent institution and subject to an O-SII buffer on a consolidated basis, the buffer that applies at individual or sub-consolidated level for the O-SII shall not exceed the higher of: (a) 1 percent of the total risk exposures; and (b) the G-SII or O-SII buffer rate applicable to the group at consolidated level.

<sup>15</sup> In line with the Directive, there shall be at least five sub-categories of global systemically important institutions.

<sup>16</sup> *A framework for dealing with domestic systemically important banks (D-SIBs)*, developed by the Basel Committee on Banking Supervision and published in October 2012, which includes a set of principles on the assessment methodology for domestically important institutions and their additional loss absorbency requirements.



### Box 2. The impact of capital surcharges applicable to domestic systemically important banks on the Romanian system banking

The National Bank of Romania reviews the banking system from the perspective of systemically important credit institutions on a regular basis, following internal procedures based on the following criteria: (a) the credit institution's contribution to the financing of the real economy, calculated via the volume of corporate loans and the degree of substitution of lending to non-financial corporations; (b) the credit institution's contribution to financial intermediation, calculated via the volume of household and corporate deposits; (c) the credit institution's activity on the interbank market and assessing the contagion effect by incorporating the feedback loops generated by the real sector; (d) assessment of systemically important institutions within the ReGIS payment system; (e) the credit institution's activity on the government securities market; (f) vulnerability to contagion in the parent-subsidiary relationship via the common lender channel (home country of the capital). The methodology for identifying systemically important credit institutions encompasses both quantitative and qualitative analyses. The assessments conducted by the central bank during 2013 H1 revealed seven credit institutions of high systemic importance, six of which are Romanian legal entities and one is a subsidiary of a foreign bank.

The simulations conducted by the NBR on credit institutions' compliance with the new capital requirements introduced by the CRD IV/CRR package have shown that systemically important institutions fulfil the minimum applicable capital requirements (i.e. a total capital of at least 8 percent of risk-weighted assets, plus the capital conservation buffer of 2.5 percent and the O-SII buffer of up to 2 percent), irrespective of whether the additional capital conservation requirements are implemented gradually or in advance. At end-2013 H1, the market share of systemically important credit institutions in total bank assets stood at 65.5 percent.

In line with the Directive, when requiring an O-SII buffer to be maintained, the competent authority or the designated authority shall comply with the same terms and conditions as in the case of the systemic risk buffer, i.e. it should not form or create an obstacle to the functioning of the internal market. The national authority shall review the buffer rate on an annual basis. Before setting or resetting an O-SII buffer, the competent authority or the designated authority shall notify<sup>17</sup> the Commission, the ESRB, EBA and the competent and designated authorities of the Member States concerned one month before the publication of the decision.

#### The impact of CRD IV/CRR on credit institutions' solvency

The NBR assessed the impact of introducing the new capital requirements set forth in CRD IV on the banking system via a questionnaire developed in line with EBA recommendations. Data reported by credit institutions should be interpreted with caution in this exercise, since CRD IV standards are under implementation in Romania. The 31 respondents, credit institutions Romanian legal entities, were classified into 8 large credit institutions and 23 small-sized banks based on the distribution of total assets held.

The average capital ratio of small credit institutions, calculated in line with the new capital requirements laid down in CRD IV, exceeds by far that posted by large banks, although the latter reported a high ratio as well (Table 7.1.). The explanation for the close values of the three average capital ratios lies with the high and very high loss-absorption capacity of domestic credit institutions' own funds, namely the relatively low volume of own funds other than CET1.

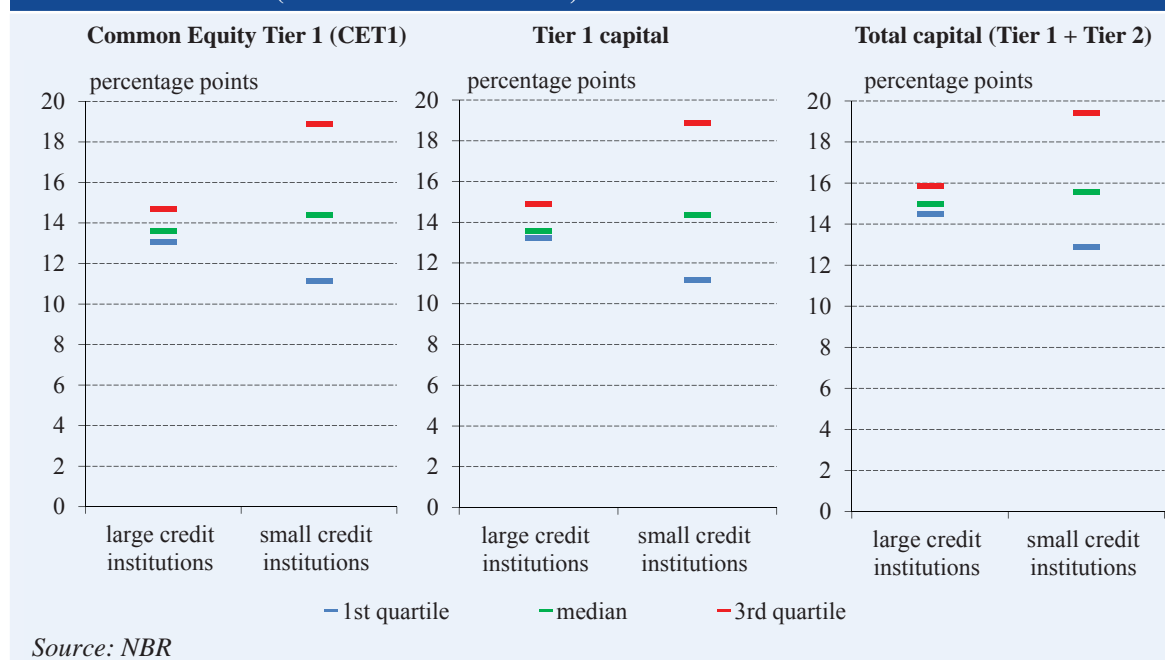
<sup>17</sup> The Directive specifies that the notification shall describe in detail: (a) the justification for why the O-SII buffer is considered likely to be effective and proportionate to mitigate the risk; (b) an assessment of the likely positive or negative impact of the O-SII buffer on the internal market, based on information which is available to the Member State; (c) the O-SII buffer rate that the Member State wishes to set.

**Table 7.1. Capital ratios of credit institutions in Romania, according to the new capital requirements set forth in CRD IV (data as of 31 March 2013, average)**

|                           | Number of credit institutions | Common Equity Tier 1 (CET1) % | Tier 1 capital % | Total capital (Tier 1 + Tier 2) % |
|---------------------------|-------------------------------|-------------------------------|------------------|-----------------------------------|
| Large credit institutions | 8                             | 13.94                         | 14.05            | 15.14                             |
| Small credit institutions | 23                            | 21.59                         | 21.59            | 22.63                             |
| Total credit institutions | 31                            | 19.61                         | 19.64            | 20.70                             |

Source: NBR

Unlike the large banks group, smaller credit institutions display a high degree of capital ratio heterogeneity (Chart 7.2.). Furthermore, the distribution of the three capital ratios across the Romanian banking sector highlights marginal differences between Common Equity Tier 1 (CET1) and Tier 1 capital, as well as slightly higher readings for total capital (Tier 1 + Tier 2), as a result of the overall high quality of own funds in the domestic banking sector at both aggregate and individual levels.

**Chart 7.2. Capital ratios of credit institutions in Romania, according to the new definition of capital in CRD IV (data as of 31 March 2013)**

Source: NBR

Following the shift to the international accounting standards (IFRS), the NBR adopted Regulation No. 11 of 2011 on the classification of loans and investments, as well as the establishment and use of prudential valuation adjustments<sup>18</sup>, whereby prudential filters were introduced, so that the shift to the IFRS would not entail the artificial improvement of prudential indicators and to avoid any detrimental impact on financial stability.

Under a scenario incorporating the full implementation of the capital conservation buffer (2.5 percent) and of the O-SII surcharge (2 percent), all large credit institutions would comply with the CRD IV prudential rules, while only two smaller credit institutions would fail to fully meet the new capital

<sup>18</sup> Later repealed by NBR Regulation No. 16 of 2012 on the classification of loans and investments, as well as the establishment and use of prudential valuation adjustments.

requirements (Table 7.2.). As regards systemically important credit institutions, they are among the eight large banks and are bound to additionally fulfil the requirement related to the systemic institution buffer. The countercyclical buffer is currently set at 0 percent, according to the results of the assessment described above.

**Table 7.2. The number of credit institutions that meet the minimum capital requirements laid down in CRD IV, under a scenario incorporating the full implementation of the capital conservation buffer starting in the first year of enforcing CRD IV requirements (data as of 31 March 2013)**

|                           | <b>Common Equity Tier 1 (CET1)</b> | <b>Tier 1 capital (Tier 1)</b> | <b>Total capital (Tier 1 + Tier 2)</b> | <b>Capital conservation buffer</b> | <b>O-SII buffer</b> |
|---------------------------|------------------------------------|--------------------------------|--|------------------------------------|---------------------|
| Large credit institutions | 8/8                                | 8/8                            | 8/8                                    | 8/8                                | 8/8                 |
| Small credit institutions | 22/23                              | 22/23                          | 22/23                                  | 21/23                              | 23/23               |
| Total credit institutions | 30/31                              | 30/31                          | 30/31                                  | 29/31                              | 31/31               |

Note: The 31 credit institutions participating in the nationwide assessment were classified into eight large banks and 23 small institutions.

Source: NBR

Assuming a gradual implementation of the capital conservation buffer, only one small credit institution would fail to fully meet the new capital requirements set forth in CRD IV. To sum up, the CRD IV has a low impact in terms of capital requirements for credit institutions Romanian legal entities, since only one or two small entities would need to raise additional capital or to adjust capital items or the risk exposure values.

### 7.1.2. Credit institutions' liquidity in the context of the CRR

Regulation (EU) No. 575/2013 of the European Parliament and of the Council on prudential requirements for credit institutions and investment firms and amending Regulation (EU) No. 648/2012 (the Capital Requirements Regulation – CRR) defines and standardises two liquidity risk indicators: the liquidity coverage ratio (LCR) and the net stable funding ratio (NSFR).

According to the liquidity coverage requirement, credit institutions should have a sufficient stock of liquid assets available at any time to enable them to cope with liquidity mismatches in case of net cash outflows in stressed conditions over a thirty day period. The stable funding requirement is a longer-term structural indicator of potential maturity mismatches, aimed at encouraging credit institutions to use stable sources of funding.

The CRR, which shall apply from 1 January 2014, only provides for credit institutions' obligation to report the two indicators, while minimum binding standards shall be introduced at a later stage, via delegated acts adopted by the European Commission. Specifically, the CRR stipulates the phase-in of the LCR from 60 percent as of 1 January 2015 and increasing on a graduated basis to 100 percent in January 2018. The introduction of a 100 percent binding minimum standard for the liquidity coverage requirement may be deferred until 1 January 2019. As far as the NSFR is concerned, the CRR does not specify a clear date for its introduction as a binding standard. Instead, the Regulation sets forth that, by 31 December 2016, the Commission shall submit a legislative proposal to the European Parliament and the Council on how to ensure that credit institutions use stable sources of funding. At the same time, Member States may accelerate the implementation of indicators at national level.

### Box 3. The impact of the CRR liquidity requirements on the domestic banking sector

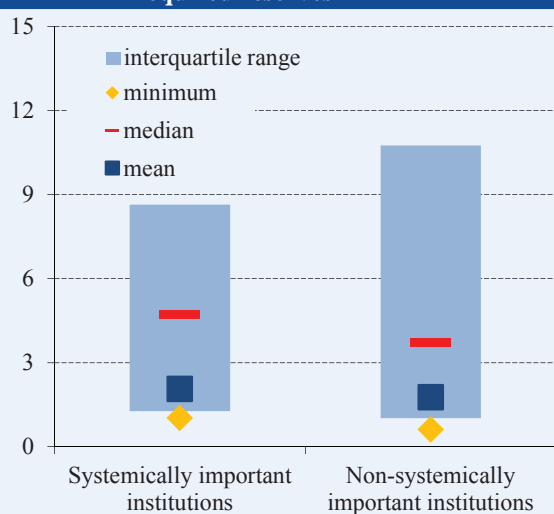
In order to assess the impact of the new requirements on the Romanian banking sector, the NBR launched in 2013 a data collection exercise<sup>19</sup> in line with European legislation.

A caveat is warranted in relation to the outcome of the exercise, since the results are based on the first reporting of data according to the CRR and hence there may have been differences in interpreting the Regulation provisions by credit institutions. In order to validate the results, an impact assessment was conducted in parallel, using the data reported by credit institutions pursuant to the domestic legislation in force in the area of liquidity risk (Regulation 25/2011 on credit institutions' liquidity). The reported values of various balance-sheet or off-balance-sheet items under consideration are not fully comparable, especially in terms of data granularity. Although there have been differences in the value of the indicator calculated via the two methods, both approaches have generally yielded similar results regarding credit institutions' compliance or non-compliance with the limits set for the LCR. The questionnaire-based results of the assessment were obtained from data collected from 34 credit institutions, accounting for 97.4 percent of total banking system assets.

The main liquid assets currently in credit institutions' portfolio are Romanian government securities and funds held with the central bank, particularly as minimum required reserves<sup>20</sup>. As regards the latter category, a decision will be taken at national level in the period ahead whether to include the minimum required reserve or not in the stock of liquid assets for the purposes of the LCR indicator.

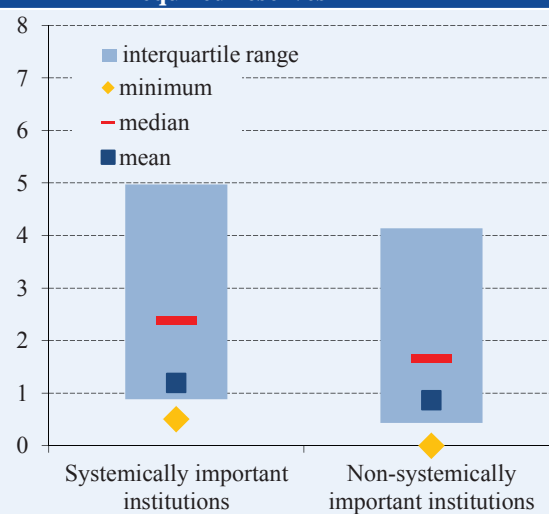
According to data as at 31 March 2013, all credit institutions meet the 60 percent minimum requirements laid down in the Regulation for the LCR on 1 January 2015, with a significant share of these entities complying with the 100 percent threshold. Thus, systemically important credit institutions fulfil the 100 percent minimum requirement, whereas four non-systemically important entities only meet the 60 percent threshold. Credit institutions with an above-par LCR make up around 91 percent of total bank assets. The indicator has been determined by incorporating the minimum required reserve in the liquid assets category (Chart 7.3.).

**Chart 7.3. The LCR indicator including required reserves**



Source: NBR questionnaire, NBR calculations

**Chart 7.4. The LCR indicator excluding required reserves**



Source: NBR questionnaire, NBR calculations

If the required reserve is excluded, 26 entities (accounting for about 77 percent of total assets in the banking system) would meet the 60 percent minimum requirements for LCR, with only one systemically important institution failing to comply with the threshold (Chart 7.4.).

The CRR does not specify the methodology for calculating the NSFR indicator, which is to be set at a later stage.

Over the period ahead, the NBR will continue to conduct several assessments in order to determine the impact, the limits and the manner of using national options in line with the new European legislative framework vis-à-vis the domestic banking sector.

<sup>19</sup> The exercise used the reporting templates in the consultation paper EBA/CP/2013/04.

<sup>20</sup> As at 31 March 2013, the minimum required reserve across the banking system accounted for approximately 11 percent of total assets or 41 percent of liquid assets reported by credit institutions in the questionnaire.

## 7.2. Recent developments in the prudential regulatory framework

Since the financial crisis has highlighted the need for adequate regulation and effective supervision of the financial system, significant changes are underway in the micro- and macroprudential regulatory framework both across the European Union and at national level.

### 7.2.1. The National Committee for Macroprudential Oversight

According to the Recommendation of the ESRB of 22 December 2011 on the macroprudential mandate of national authorities (ESRB/2011/3), each Member State shall designate in the national legislation an authority entrusted with the conduct of macroprudential policy across the domestic financial system. A draft Government Emergency Ordinance on the macroprudential oversight of the national financial system has been prepared in light of the ESRB Recommendation.

In particular, the draft ordinance provides for the establishment of the National Committee for Macroprudential Oversight (hereinafter “the Committee”) as an inter-institutional cooperation forum and non-legal entity, whose objective is to ensure the coordination of macroprudential oversight of the domestic financial system by defining the macroprudential policy and determining the adequate tools for its enforcement. The Committee incorporates the authorities playing a significant role in safeguarding financial stability, namely the NBR, the FSA and the MPF. The organisational structure of the Committee includes the General Board, a technical committee on systemic risk, a technical committee on financial crisis management and a Secretariat, ensured by the NBR. General Board meetings are also attended by a representative of the Bank Deposit Guarantee Fund as observer.

The fundamental objective of the Committee is to contribute to safeguarding financial stability, also by enhancing financial system resilience and by containing the build-up of systemic risks, thereby ensuring a sustainable contribution of the financial sector to economic growth. In the pursuit of its objective, the Committee shall be operationally independent, in the sense that it cannot receive instructions from other public or private entities.

The key tasks of the Committee include: (i) identifying, monitoring and assessing systemic risks; (ii) identifying the financial institutions and structures that are systemically relevant; (iii) preparing the strategy on the macroprudential policy; (iv) issuing recommendations and warnings with a view to preventing or mitigating systemic risks; (v) monitoring the implementation of recommendations issued by the ESRB or the Committee and of the measures taken by the national authorities as a follow-up to recommendations or warnings from the two entities.

In addition, the Committee shall cooperate and exchange information with microprudential supervisory authorities and equivalent authorities in other Member States or at EU level. The Committee may issue recommendations both for national microprudential supervisory authorities, according to their areas of competence, and for the government, when legislative proposals are warranted in order to preserve financial stability. Non-compliance with ESRB recommendations needs to be adequately justified.

As regards transparency and accountability, the Committee shall: (i) ensure the timely disclosure of macroprudential policy decisions to the public, unless there are risks to financial stability in doing so,

(ii) have the power to make statements on systemic risk, (iii) be held accountable to the Parliament, and (iv) enjoy legal protection, its staff included, when they act in good faith.

Assigning a leading role to the NBR in the macroprudential policy and ensuring that macroprudential policy does not undermine its independence are both in line with EU-wide approaches, including with the provisions of the ESRB Recommendation of 22 December 2011, regarding central banks' powers and responsibilities in the area of financial stability and, where applicable, in the area of microprudential supervision.

### 7.2.2. The Banking Union

The EU economic governance framework has undergone extensive reconfiguration since the latest Financial Stability Report. Particular mention should be made of the Banking Union project, initially developed as a solution across the euro area and participating Member States to address several challenges facing the European financial system in the wake of the recent global financial crisis. The Banking Union project aims, *inter alia*, to: (i) halt the fragmentation trend on EU financial markets, which is at odds with the EMU and the single market; (ii) strengthen financial stability; (iii) break the negative feedback loop between banks and sovereigns; (iv) restore the proper functioning of the monetary policy transmission mechanism, and (v) establish a single supervisory mechanism operated by the ECB across the euro area, as a prerequisite for the direct recapitalisation of ailing credit institutions via the European Stability Mechanism. The Banking Union is based on a single rulebook and its key building blocks are the Single Supervisory Mechanism (SSM), the Single Resolution Mechanism (SRM) and the network of deposit guarantee schemes (DGS).

The recommendation for the establishment of a single rulebook for European financial institutions dates back to the European Council of June 2009. In the context of this recommendation, the harmonised framework for the prudential regulation and supervision of credit institutions is implemented both through the efforts of the European Banking Authority – namely detailing the European legislative framework and issuing the binding technical standards, along with guidelines and recommendations – and by transposing the Basel III international standards into European law. The latter shall occur upon the coming into force of the CRD IV package of prudential regulations on credit institutions' own funds requirements. Consequently, the single rulebook will help reduce regulatory arbitrage and will require credit institutions to maintain sufficient levels of own funds and liquidity so as to enable them to better manage operational risks and cover potential losses.

Under the Single Supervisory Mechanism<sup>21</sup>, the ultimate responsibility for prudential supervisory tasks related to the financial stability of all euro area banks lies with the ECB. Specifically, the ECB shall: (i) ensure the uniform application of the single rulebook on a group-wide basis for euro area credit institutions; (ii) supervise directly the most significant credit institutions, and (iii) monitor the supervisory practices of less significant credit institutions by the competent national authorities. For SSM purposes, credit institutions shall be considered as significant depending on their asset size, the asset-to-GDP ratio, cross-border activity and on direct financial assistance from the European Stability Mechanism. In addition to directly supervising smaller banks, national supervisors will assist the ECB in the supervision of significant credit institutions and carry out day-to-day supervisory tasks relating to money laundering and payment services. The SSM is open to all non-Eurozone countries willing to participate, based on a close cooperation agreement between the

<sup>21</sup> Commission proposal of 12 September 2012 on new ECB powers for banking supervision as part of a banking union.

competent national authorities and the ECB. The European Banking Authority will be responsible for ensuring effective and consistent implementation of the single rulebook both within the SSM and in member countries outside this mechanism.

The introduction of a harmonised EU-wide resolution framework via the proposal for a Directive of the European Parliament and of the Council establishing a framework for the recovery and resolution of credit institutions and investment firms (the Bank Recovery and Resolution Directive – BRRD) will help minimise the systemic and fiscal consequences of bank failures. The shift in the resolution costs from governments to credit institutions' shareholders and creditors (burden sharing arrangement, bail-in versus bail-out, when taxpayers take the fiscal burden of a bank failure) shall observe the “no creditor worse off” principle, according to which no creditor incurs greater losses than would be incurred if the institution were to be wound down under normal insolvency proceedings.

The Single Resolution Mechanism proposed by the Commission, with its Single Bank Resolution Fund<sup>22</sup>, is a complementary solution to SSM participation, aimed at the consistent and effective implementation of the BRRD by setting up an adequate bank resolution framework, which could be used when the troubles faced by a credit institution would raise problems from a public interest point of view. The Single Resolution Mechanism would work as follows: (i) the ECB would signal when a credit institution needs to be resolved; (ii) the Single Resolution Board, consisting of an Executive Director, a Deputy Executive Director and representatives from the ECB, the European Commission and the relevant national authorities, would define the approach for resolving the bank; (iii) on the basis of the Single Resolution Board's recommendation, the Commission would decide whether and when to place a bank into resolution, and (iv) national resolution authorities would be in charge of the execution of the resolution plan. As regards the financing of the resolution process, the Banking Union's Single Bank Resolution Fund may make a contribution only after having exhausted the internal resources (at least 8 percent of the liabilities and own funds of the institution under resolution), provided that the contribution does not exceed 5 percent of the total liabilities including own funds of the institution under resolution. Where the 5 percent limit has been reached, in extraordinary circumstances, further funding may be sought from alternative financing sources for euro area credit institutions, including via the European Stability Mechanism. The implementation of the Single Resolution Mechanism and hence of the Single Bank Resolution Fund is currently met with opposition from several Member States invoking the absence of legal grounds and the possibility of resorting to this authority after amending the EU Treaty.

As regards deposit guarantee schemes, it is not envisaged to equip the Banking Union with a single supranational DGS at this stage. A possible intermediate step in this sense would be adopting the DGS Directive and setting up a common network of national deposit guarantee schemes, with properly funded deposit guarantee funds. The adoption of the DGS Directive is a priority at European level, given its complementarity with the other two components of the Banking Union project.

The Banking Union project will impact both the microprudential supervisory practices and the macroprudential supervisory framework in the euro area and in the participating Member States. The scope of macroprudential supervision in the EU includes, at a cross-border level, the ESRB tasks on monitoring, preventing and mitigating systemic risk across the European financial system, issuing warnings and recommendations, as well as its advisory tasks at EU level. Furthermore,

---

<sup>22</sup> Commission proposal of 10 July 2013 for a Single Resolution Mechanism for the Banking Union.

at a national level, the competent authorities or designated authorities may enforce policies and use macroprudential tools, either on their own initiative or following ESRB recommendations or warnings. These two levels are complemented by the Single Supervisory Mechanism, which applies to credit institutions in participating Member States. As part of this mechanism, the ECB may adopt stricter measures than those taken by competent or designated national authorities with regard to capital buffers or systemic risk mitigation.

The Banking Union has an opt-in mechanism for non-euro area Member States, Romania included. Among the benefits of participating in this project, with direct positive implications at national level, are: strengthening financial stability, increasing confidence in the domestic banking system amid harmonised supervisory practices and deposit guarantee schemes, as well as supporting lending and economic growth by reducing fragmentation on European financial markets. On the other hand, participation in the Banking Union would entail a reduction in terms of tools and decision-making at national level, primarily in the areas of prudential supervision and bank resolution, and would lead to expenses related to national contributions to the financing of implemented mechanisms, especially for the Single Resolution Mechanism and the deposit guarantee schemes. Against this background, the assessments underlying the opt-in/opt-out mechanism should take into account both the segregation of duties, tasks and responsibilities among participating entities and the ensuing financial obligations. Hence, particular attention should be attached to the outcome of the talks on outstanding issues at European level.

According to the Memorandum titled “Romania’s position vis-à-vis the consolidation measures of the Economic and Monetary Union (EMU)”<sup>23</sup>, Romania supports the establishment of a genuine Banking Union and the strengthening of euro area governance, with the caveat that the process should not be detrimental to non-euro area Member States and thus contribute to fragmentation across the European Union.

Moreover, the NBR is of the opinion that the extension of the SSM scope so as to include all EU Member States would prove timely only after a reasonable transition period. However, SSM operation should take into consideration the need to strike a balance between feasibility and pace of implementation, given the ECB’s gradual take-up of actual responsibilities regarding the supervision of euro area credit institutions, in cooperation with and delegating tasks to relevant national supervisors. Several issues still need to be addressed from this point of view.

First, the other two components of the Banking Union, i.e. the SRM and the common network of national deposit guarantee schemes, need to be implemented in parallel and within a reasonable time frame, considering the complementarity of the Banking Union pillars, by understanding and solving from a political point of view their significant implications on Member States’ public finances.

Second, stakeholders need to assess the possible negative consequences that SSM/Banking Union implementation in the euro area could have on non-Eurozone countries and take steps towards eliminating any such consequences. In particular, additional financial sector fragmentation may occur owing to possible banking structure changes in non-euro area host Member States (with parent banks converting their subsidiaries into branches), compounded by possible incentives for deleveraging, also due to circumstantial reasons.

<sup>23</sup> Approved by the Government of Romania on 4 December 2012.



Third, the implementation of a two-layer prudential supervisory framework (the ECB plus the national authorities) calls for identifying an effective cooperation mechanism between these entities and sorting out the actual mechanism for settling any divergent opinions among home-host authorities.

Additionally, prudential indicators in non-euro area Member States consolidated at levels above those recorded in parent banks' home countries, thus counterbalancing the labelling of these emerging economies as vulnerable. Avoiding the erosion of these indicator readings over the medium term would underpin the efforts made by non-Eurozone countries towards preserving financial stability.

At the same time, another relevant issue concerns the access to the ECB's liquidity-providing facilities. Specifically, recourse to ESM and ELA (Emergency Liquidity Assistance), which is possible for euro area banks, but not for credit institutions outside the Eurozone, can be a serious threat to a level playing field within domestic banking systems.

In light of the above, the NBR believes that fair conditions are warranted in terms of the rights and obligations of each participating Member State. Moreover, the actual procedure to be followed by non-euro area countries willing to join the Single Supervisory Mechanism or the Banking Union should be configured in a careful and balanced manner.

