

Monitoring the lending developments to non-financial companies (NFC) and households (HH)

- 1. Why is it important?
- 2. How it is done?
- 3. The Romanian case



Many channels of interaction between real and financial sectors:

The borrower balance sheet channel – the inability of lenders to (i) fully assess borrowers' risks and solvency, (ii) fully monitor their investments and (iii) fully enforce their repayment of debt

- Bernake and Gertler (1989); Carlstrom and Fuerst (1997) borrowers face an "external finance premium"
- Kiyotaki and Moore (1997) collateral constraints

The bank balance sheet channel – shocks in financial institutions' balance sheets can entail sharp contractions in credit and in economic activity

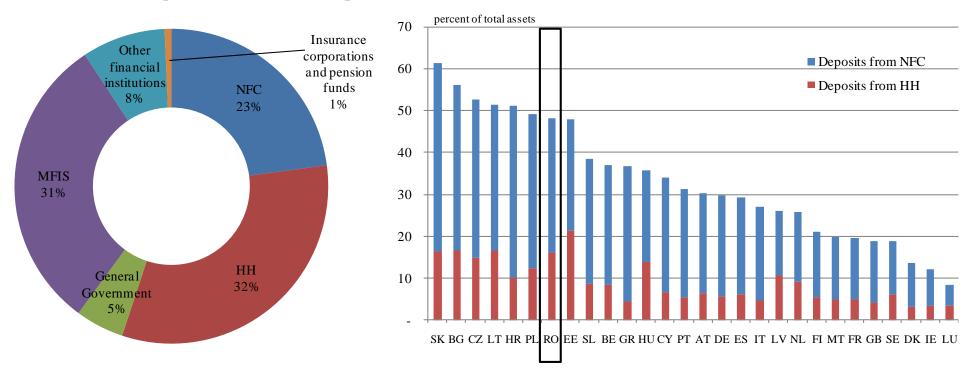
- Bernake and Blinder (1988) traditional bank lending channel
- Holmström and Tirole (1997), Stein (1998), Heuvel (2002) etc. bank capital channel

The liquidity channel

• Diamond and Rajan (2005), Brunnermerier and Pedersen (2009) etc. – highlighted by recent crisis

NFC and HH have an important role in the European MFIs balance sheets

Structure of European MFIs' loans (September 2013)

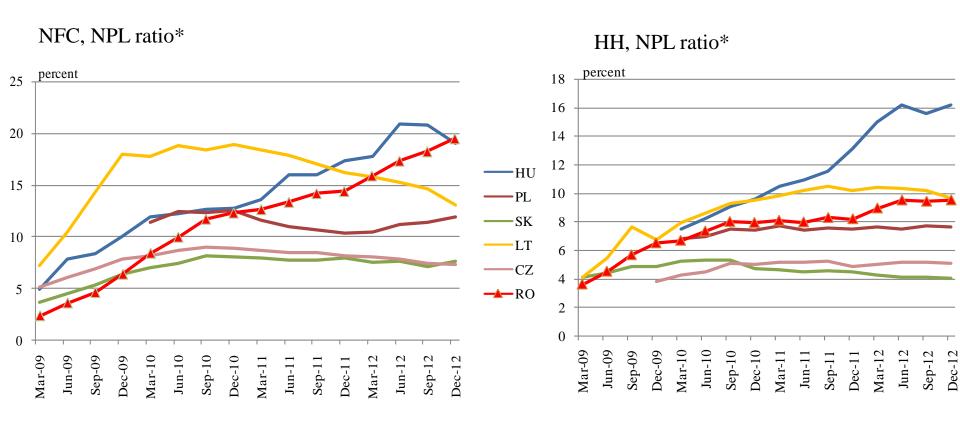


Source: ECB, NBR calculations

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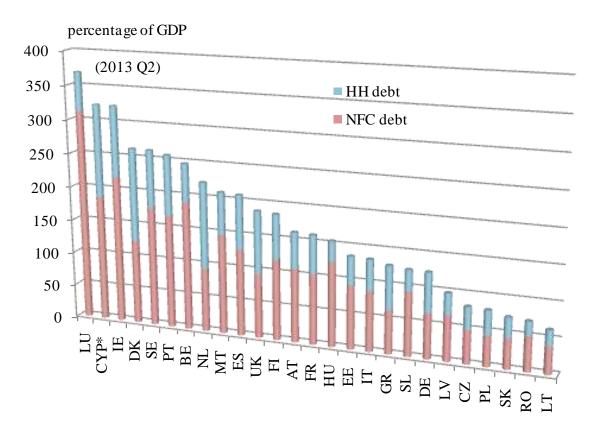
The credit risk stemming from NFC and HH exposure should be closely monitored..



^{*}Data are not fully comparable across countries, due to differences in national classification practices *Source: European NCBs websites, NBR calculations*



....and also supports the need for a rethinking of what represents a sustainable level of debt



* Data as of 2012

Note: non-consolidated data

Source: ECB



European initiatives:

- -focus on SMEs: joint Commission-EIB initiative for increasing SMEs' access to finance (2013); Funding for Growth Scheme (HU, 2013); Funding for Lending Scheme (UK, 2012)
- -shift to long-term financing (EC, Green Paper, 2013)
- -encourage banks to clean their balance-sheets (EBA, 2013) in order to boost economic growth by new lending to sound borrowers



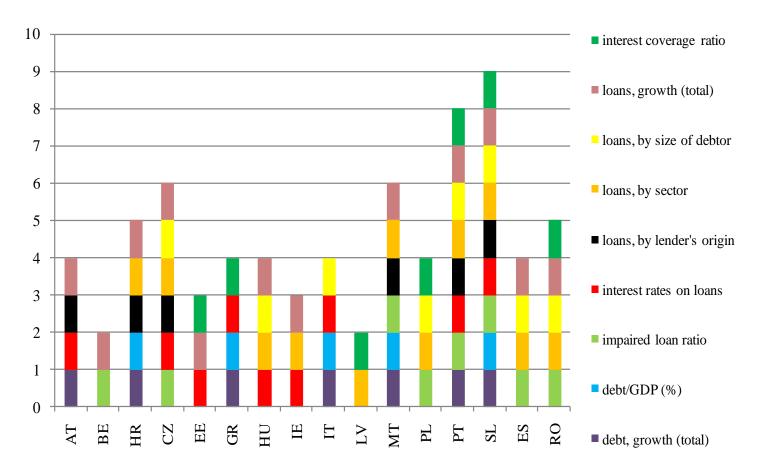
2. NFC and HH monitoring- how it is done?

- ✓ Financial Stability Reports (18 out of 24 EU countries that publish FSRs have distinct sections on NFC and HH)
- ✓ Bank lending surveys (25 out of 28* countries, including RO)
- ✓HH Finance and Consumption Survey EA (2013)**; other HH surveys
- ✓Surveys on the access to finance of enterprises EC and ECB on 38 countries; ECB on EA17; LT; RO etc.
- ✓ Other publications on NFC and HH developments (Trends in lending- HU; Survey of households with a housing loan LT etc.)

*ECB publishes BLS at aggregate level for EA countries; NCBs of the Member States can also decide to publish BLS at country level, compiled after the data reported by the domestic banks from the EA banks pool **15 EA countries participated in the first wave of the survey, with the fieldwork taking place in 2010/2011. Ireland and Estonia will start participating in the HFCS from the second wave of the survey

2. NFC and HH monitoring- how it is done?

Tools for monitoring NFC sector:

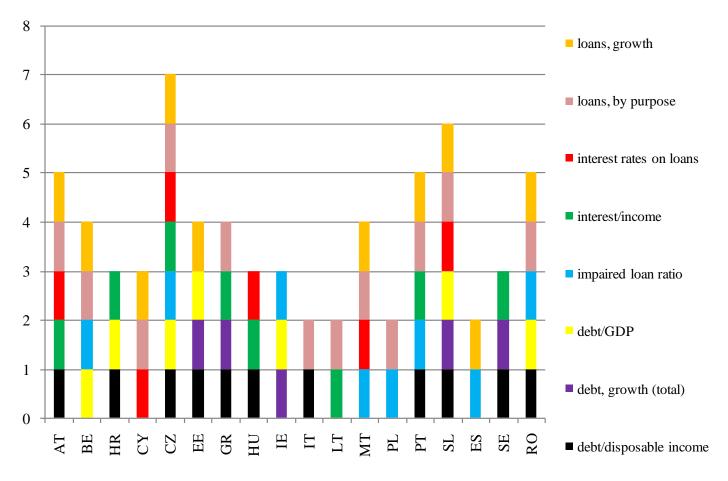


Source: European NCBs websites



2. NFC and HH monitoring- how it is done?

Tools for monitoring HH sector:

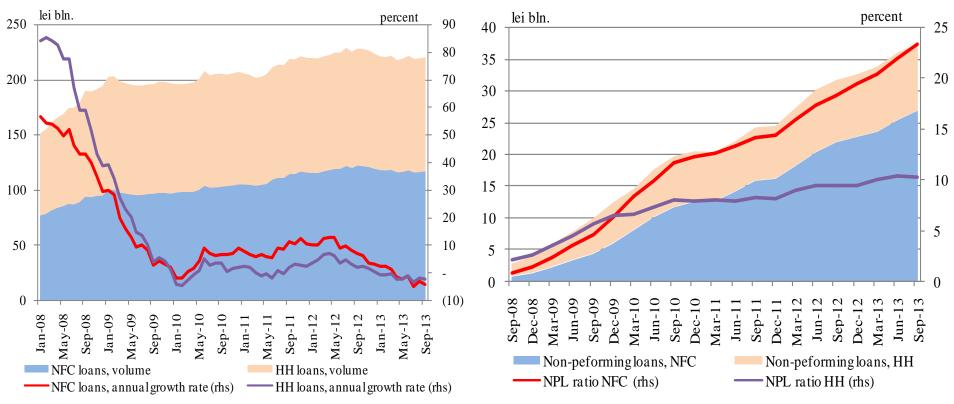


Source: European NCBs websites



3. The National Bank of Romania financial stability perspective in monitoring NFC and HH lending developments

total lending and nonperforming loans (NPL)

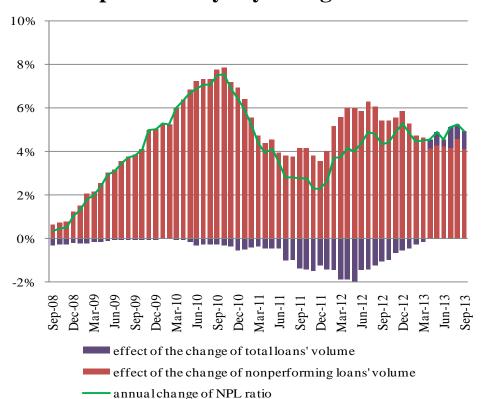


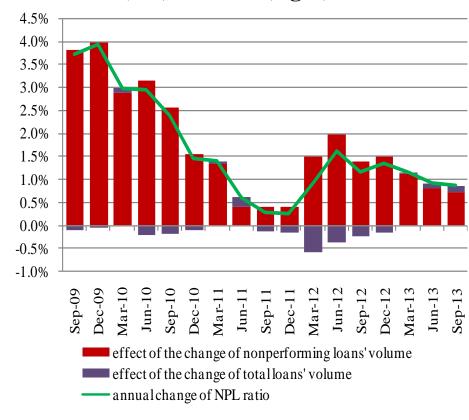
Note: The non-performing loan ratio is calculated as the share of loans granted to NFC/HH overdue for more than 90 days or for which legal proceedings have been opened (with company or natural entity contamination) in total loans to NFC/HH

Source: Monetary balance sheet, NBR calculations

Source: Central Credit Register, NBR calculations

decomposition of y-o-y change of the NPL ratio for NFC (left) and HH (right) sectors





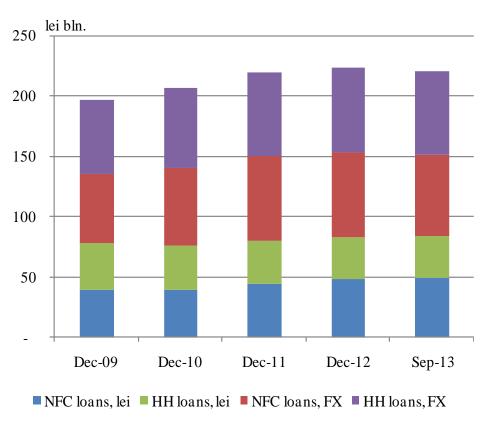
Note: decomposition with the use of partial derivatives' calculus:

$$\Delta \frac{NPL}{Loans} = \Delta NPL * \frac{1}{Loans_{t}} - \frac{NPL_{t}}{Loans_{t}^{2}} * \Delta Loans$$

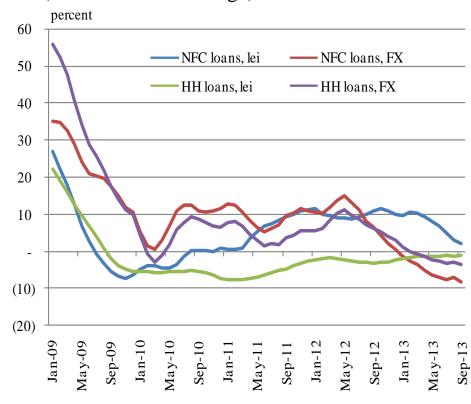
Source: Central Credit Register, NBR calculations Source: Central Credit Register, Credit Bureau, NBR calculations

lending, by currency

Total loans, volume



Growth rate of loans granted to NFC and HH (annual nominal change)

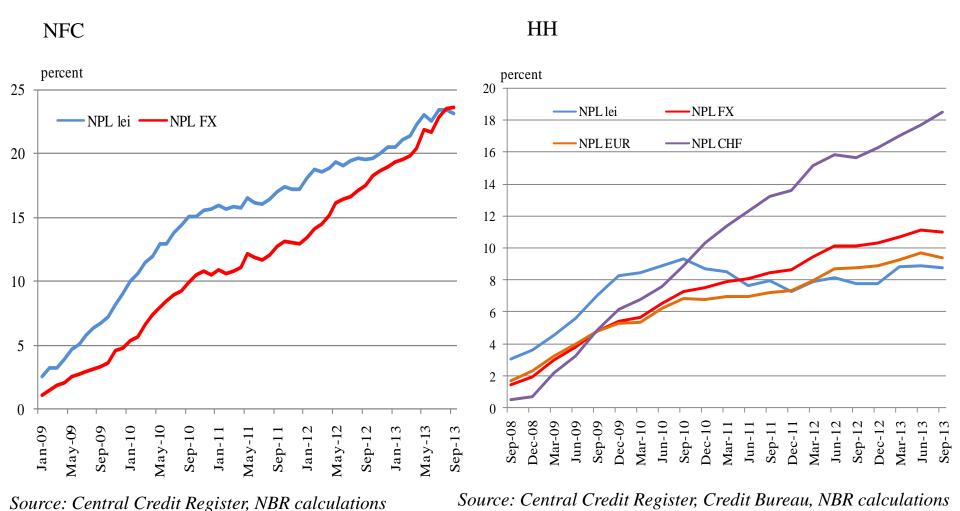


Note: 3 month moving average

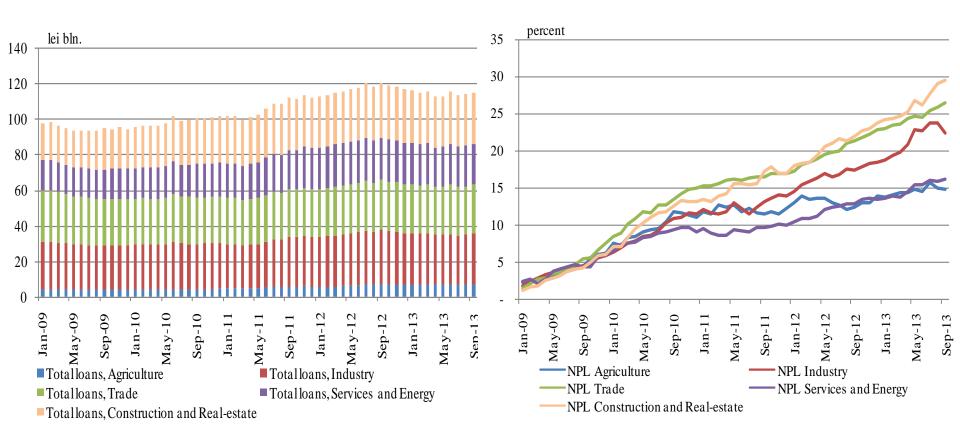
Source: Monetary balance sheet, NBR calculations



NPL ratio, by currency



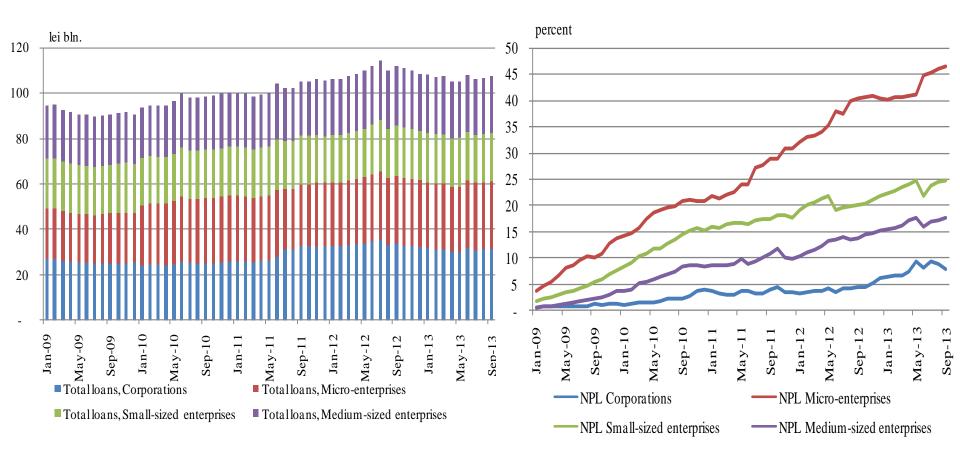
NFC lending and NPL ratio by business sector



Source: Central Credit Register, Ministry of Public Finance, NBR calculations



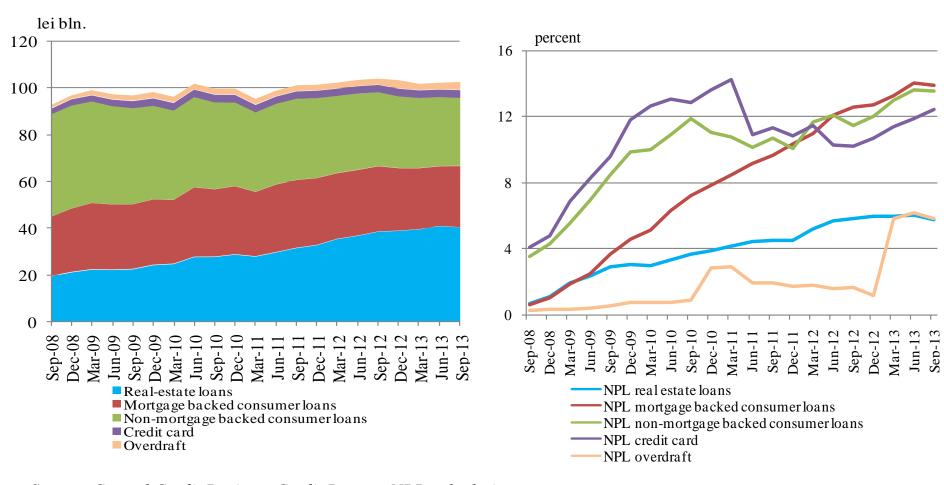
NFC lending and NPL ratio by size of debtor



Source: Central Credit Register, Ministry of Public Finance, NBR calculations



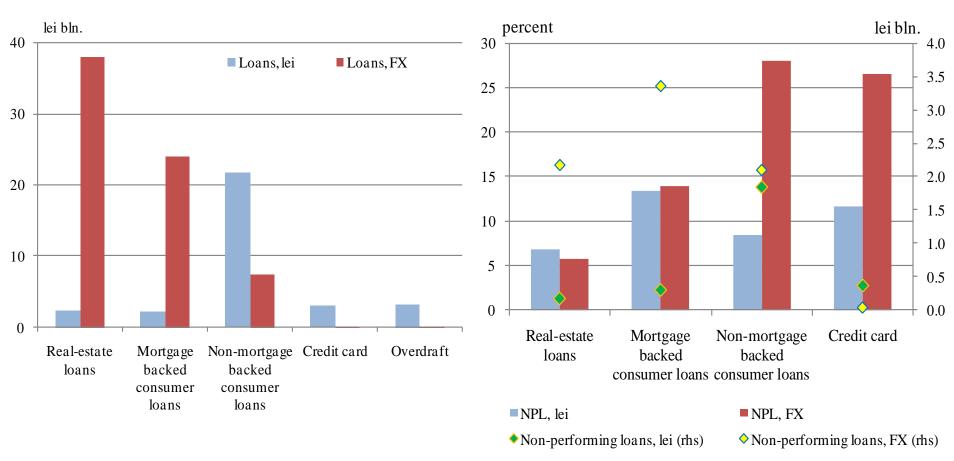
HH lending and NPL ratio by type of loans



Source: Central Credit Register, Credit Bureau, NBR calculations



HH lending and NPL ratio by type of loans and currency (September 2013)



Source: Central Credit Register, Credit Bureau, NBR calculations



Thank you!

