

# How to absorb excess liquidity in the banking sector?

## - Summary of results -

**Ricardo Giucci, Cyrus de la Rubia, Woldemar Walter**

German Economic Team Moldova

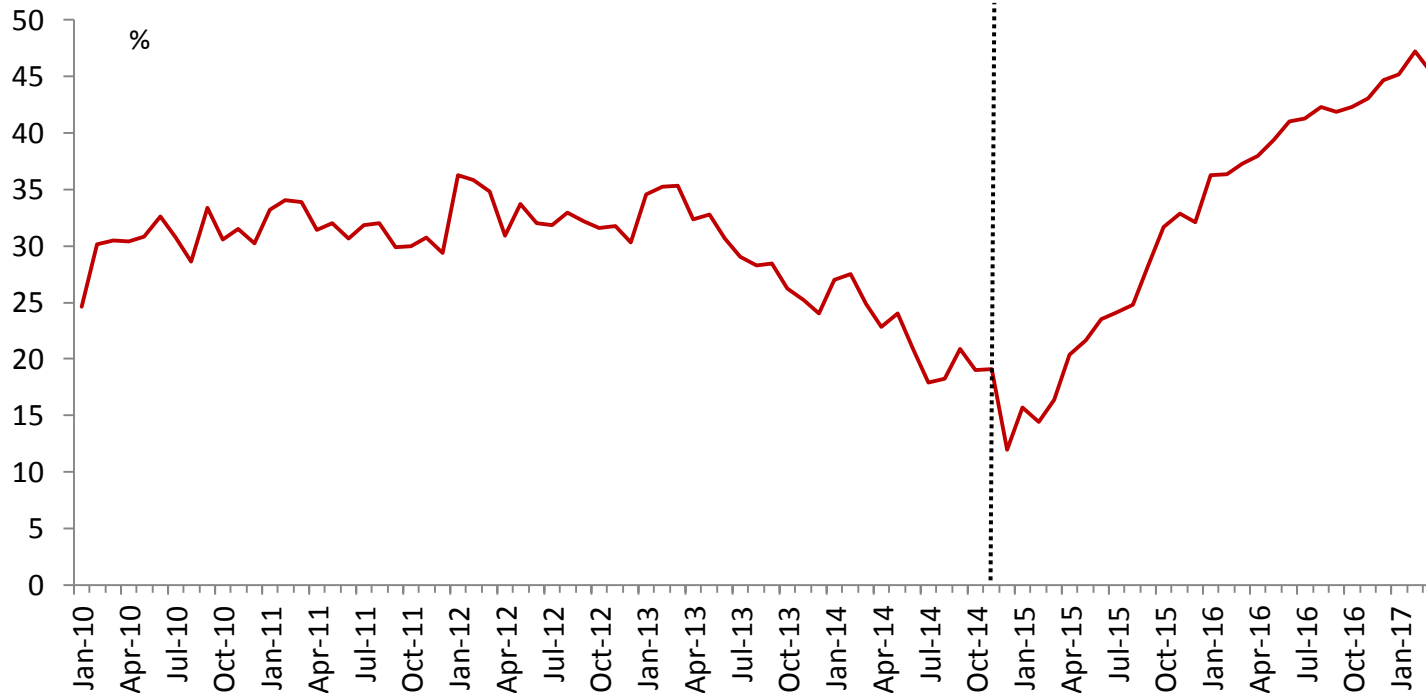
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## Structure

1. Excess liquidity in the market: Quantification
2. Reasons and implications of excess liquidity
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  - Involving the NBM only
  - Involving the NBM and the government

# 1. Excess liquidity in the market: Quantification

MDL base money absorbed in percent of MDL base money incl. certificates



Source: National Bank of Moldova

**Historically:** NBM absorbed ca. 30% of base money incl. certificates

**Currently:** NBM absorbs MDL 16.3 bn or ca. 45% of base money incl. certificates

→ **Excess liquidity estimated at MDL 6 bn or 15% of base money incl. certificates**

## 2. Reasons and implications of excess liquidity

### Main reason for excess liquidity

- NBM: Provision of emergency loans to three bankrupt banks since Nov 2014
- Goal: To calm/pay out depositors and avoid a bank run

→ **Stabilisation of banking sector, but problems for monetary policy**

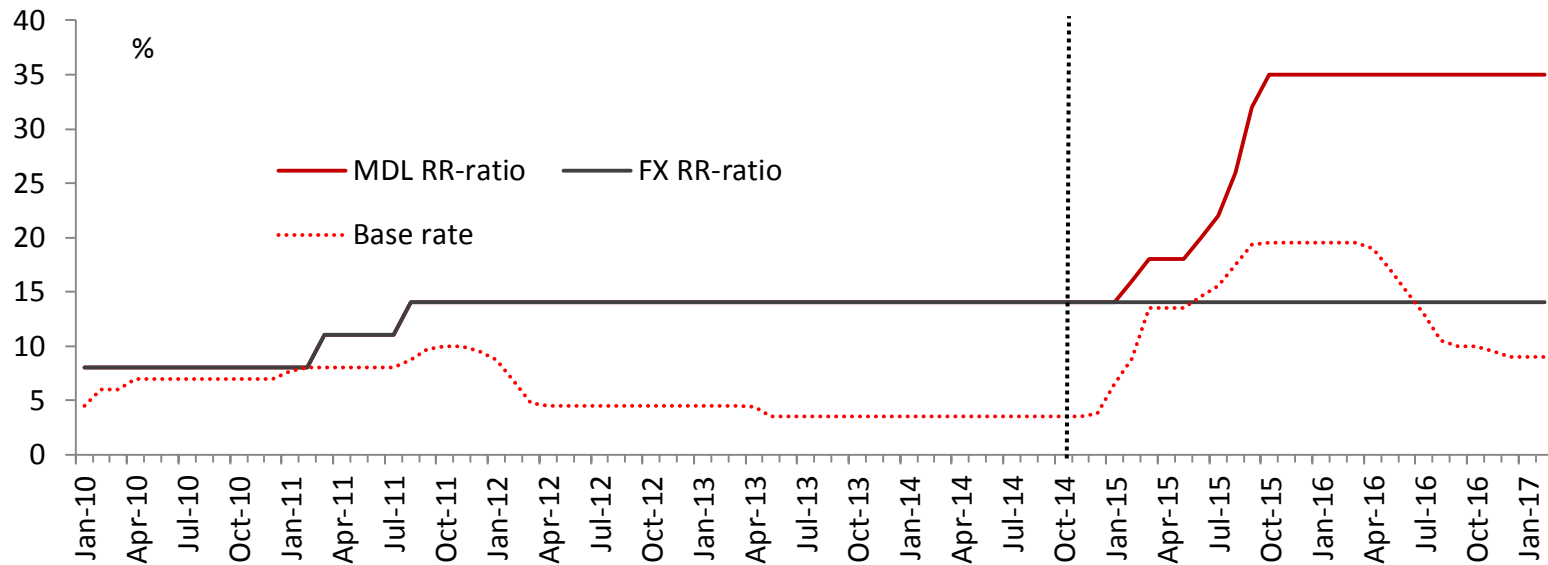
### Implications of excess liquidity

- If excess liquidity is not absorbed
  - NBM cannot effectively target inflation
  - Risk for higher inflation or excessive exchange rate fluctuations
  - Thus: Not feasible
- If excess liquidity is absorbed
  - Considerable cost of absorption, thus creating financial problems for NBM

→ **Excess liquidity poses significant problems for conducting monetary policy**

### 3. Current absorption policy: Reserve requirements

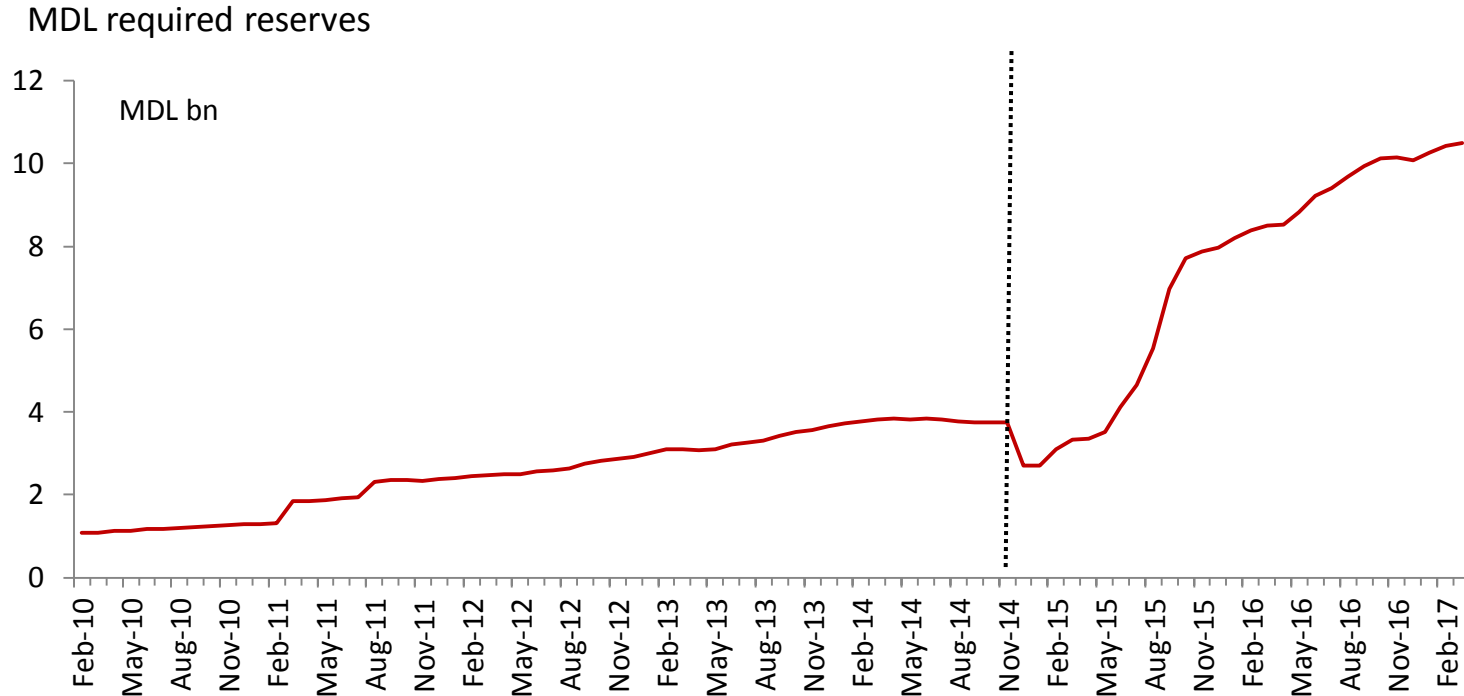
Reserve requirement ratio for MDL deposits and FX deposits, base rate



Source: National Bank of Moldova

- Since Jan 2015: Strong increase of ratio for MDL reserve requirements
- Dec 2014: 14%, currently: 37%
- Remuneration: From the 37% required, 32% are remunerated at a rate of 6%
- Effective interest rate:  $(32/37) * 6\% = 5.2\%$

## Absorption through reserve requirements

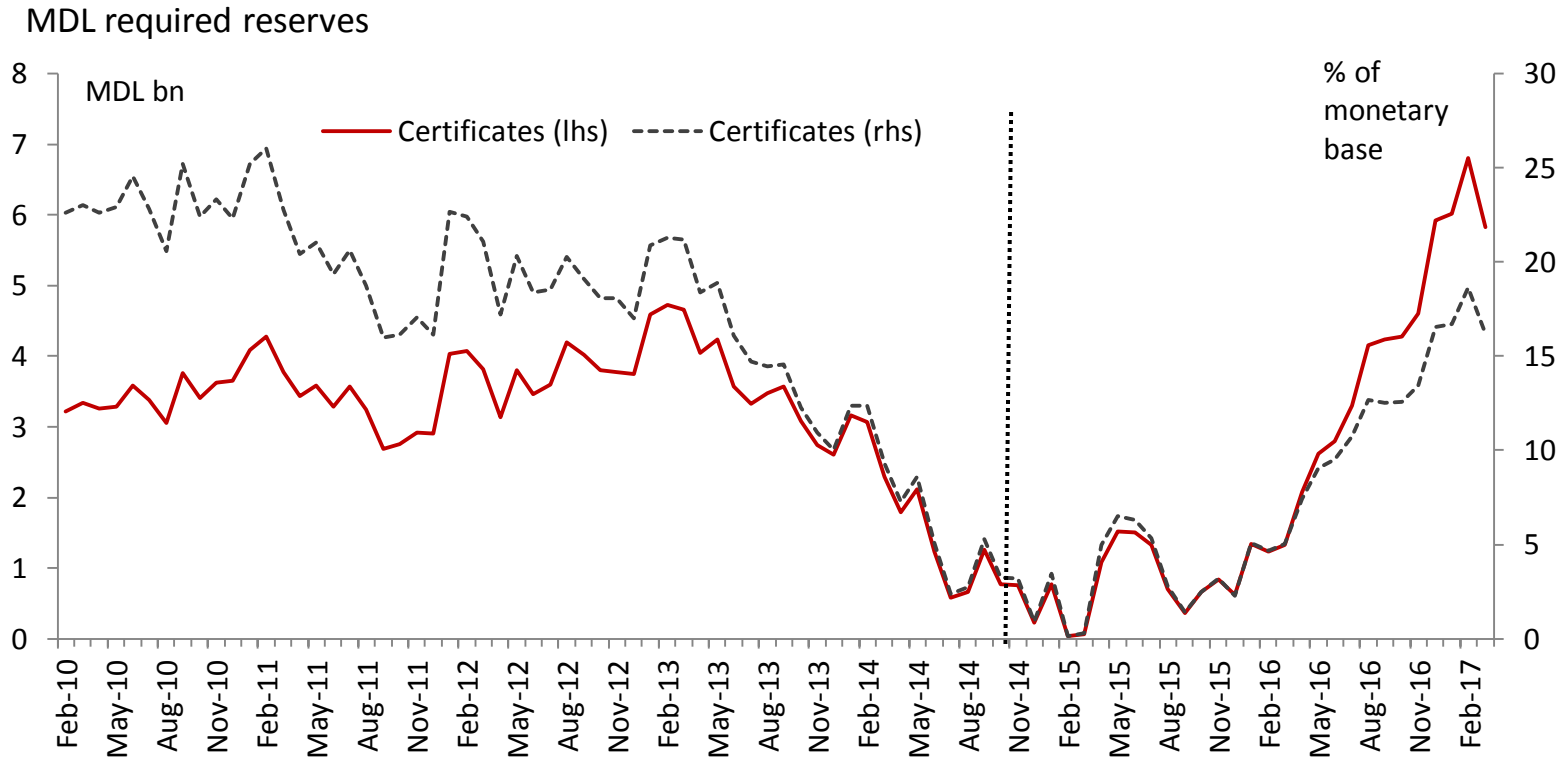


Source: National Bank of Moldova

- Strong use of reserve requirements as an absorption instrument
- Currently (March 2017): Absorption of MDL 10.5 bn
- Yearly cost of absorption (estimation):  $\text{MDL } 10.5 \text{ bn} \times 5.2\% = \text{MDL } 545 \text{ m}$

→ Reserve requirement is the main absorption instrument of the NBM

## NBM certificates



Source: National Bank of Moldova

- NBM is also using actively certificates as an absorption instrument
- Currently (March 2017): Absorption of MDL 5.8 bn
- Interest rate = 9%; yearly cost of absorption (estimation) = MDL 522 m

→ **Certificates also play a major role for absorption of liquidity**

## 4. Impact of current absorption policy on NBM financial results

Estimation of financial results of NBM

Assets	Amount, MDL m	Interest payments, MDL m/year
Government bonds issued under the Law 235 of 3.10.2016	13,340	618
Government bonds (historical stock)	2,300	184*
Net FX reserves	38,543 (or USD 1,960 m)	377*
<b>Sum</b>		<b>1,179*</b>
<b>Liabilities</b>		
MDL required reserves	10,500	545
Certificates	5,800	522
<b>Sum</b>		<b>1,067</b>
Net interest income		112
Operational expenses		270**
<b>Profit/loss</b>		<b>-158*</b>

Source: Own calculation based on National Bank of Moldova data

\* estimate; \*\* estimated on the basis of 2015 figures

- Significant yearly cost of absorption: MDL 545 m + MDL 522 m = MDL 1,067 m
  - Thus: Important reason for estimated losses at NBM
  - **Assessment:** Absorption policy is necessary, but NBM financial losses imply major problems (credibility, risk on independency)
- **Need to find a sustainable absorption policy**



## 5. Three criteria for a sustainable absorption policy

- i. Absorption of sufficient liquidity
- ii. Reasonable cost for the NBM, in order to avoid a negative financial result and/or own capital becoming negative
- iii. No competition between the NBM and the Ministry of Finance on the money market, i.e. the debt market with short maturities

**Ideally:** NBM would find a long-term solution on its own

**But:** If this is possible, solution to be found with government

**Thus:** Two scenarios

- Solution involving only NBM
- Solution involving NBM and government

## **6. Potential instruments for absorbing excess liquidity**

### **Solution involving the NBM only**

1. Selling the historical stock of bonds
2. Adjusting the reserve requirement
3. Offering certificates

### **Solution involving the NBM and government (additional instruments)**

4. Issuance of government bills and/or bonds
5. Selling Law 235 bonds

## 7. Comparison of the costs of different absorption instruments

Instrument	Potential absorption, MDL m	NBM costs for absorbing MDL 1 bn, MDL m	Total costs per year, MDL m	Temporary vs. permanent absorption
<b>Selling gov bonds (historical stock)</b>	Up to 2,300	Not clear	Not clear	permanent
<b>Reserve requirement, effective interest rate at 5,2%</b>	10,500 (currently)	52	545	As long as the reserve requirement is not relaxed
<b>Reserve requirement, effective interest rate at 4,2%</b>	10,500 (currently)	42	441	As long as the reserve requirement is not relaxed
<b>NBM certificates</b>	5,800 (currently)	90	522	2 weeks
<b>Issuance of government bills/bonds, MinFin bears 50% of interest cost</b>	≤ 2,000/year	50% of 67.6 (bills) = 33.8 50% of 78.4 (bonds) = 39.2	67.6 78.4	91 to 364 days 2 years
<b>Selling Law 235 bonds</b>	≤ 1,000 (if maturities up to 2021 are considered)	176	176	permanent

Source: Own calculation based on National Bank of Moldova data

## 8. Recommendations: Solution involving the NBM only

### i. Reduction of effective remuneration rate of reserve requirements

- E.g.: Reduction from 5.2% to 4.2%
- Yearly savings of MDL 104 m, positive impact on financial results
- How? Gradually, to avoid strong reactions for banks and/or depositors

### ii. Selling of government bonds from historical stock

- Advantage: Permanent effect
- However: Are bonds marketable?

### iii. Certificates

- To be only used as an instrument of fine tuning
- Reason: Most expensive instrument (MDL 90 m for absorbing MDL 1 bn)
- Besides: Increase of maturity to 30 days and limited allotment
- Why limited allotment? Could lead to lower interest rates and costs for NBM

## Solution involving the NBM and government

### Additional instrument

- iv. Issuing of government bonds by MinFin of up to MDL 2 bn
  - Receipts to be frozen at a NBM account
  - Cost (interest payments) to be shared by NBM and MinFin
  - E.g.: 50% each
  - **Thus:** Contribution to absorption at relatively low cost for NBM

### **Discussion: Why possible participation of MinFin?**

- NBM must be able to target inflation (and avoid large exchange rate fluctuations) without making losses and thus put its independency at risk
- Proposed instrument better than a recapitalisation of NBM by MinFin

### **Possible role of the National Committee on Financial Stability (“NCFS”)**

- Since topic is crucial for the financial stability of the country, we suggest discussing the issue at the NCFS

## Contact

**Dr Ricardo Giucci**

giucci@berlin-economics.com

**Woldemar Walter**

walter@berlin-economics.com

German Economic Team Moldova

c/o BE Berlin Economics GmbH

Schillerstr. 59, D-10627 Berlin

Tel: +49 30 / 20 61 34 64 0

www.get-moldova.de

Twitter: @BerlinEconomics

Facebook: @BE.Berlin.Economics

