

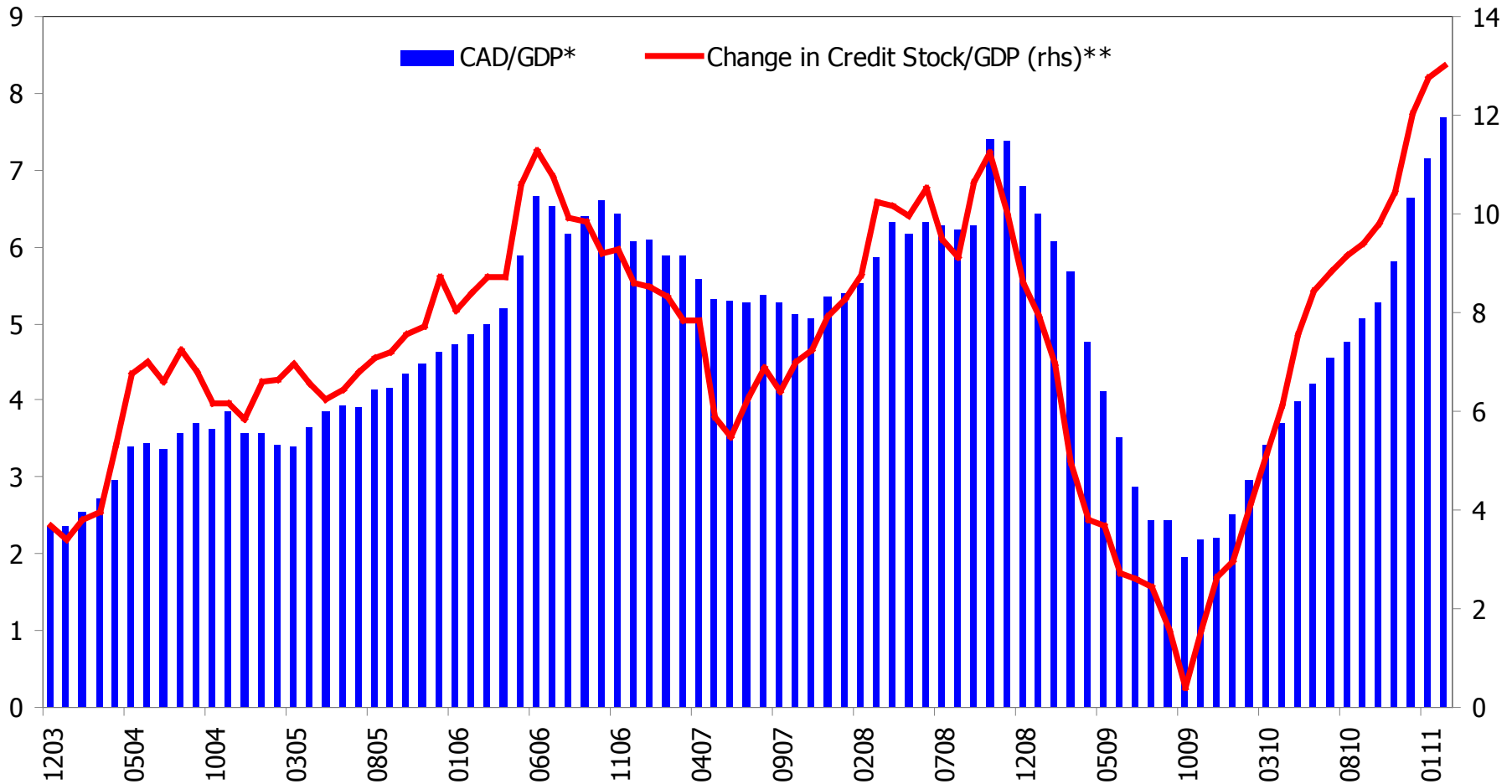


# **Monetary Policy and Financial Stability**

**Turalay Kenc  
Deputy Governor  
May 2011**

# A monetary policy challenge: Existence of the financial stability problem...

**Credit Growth and Current Account Deficit (%)**

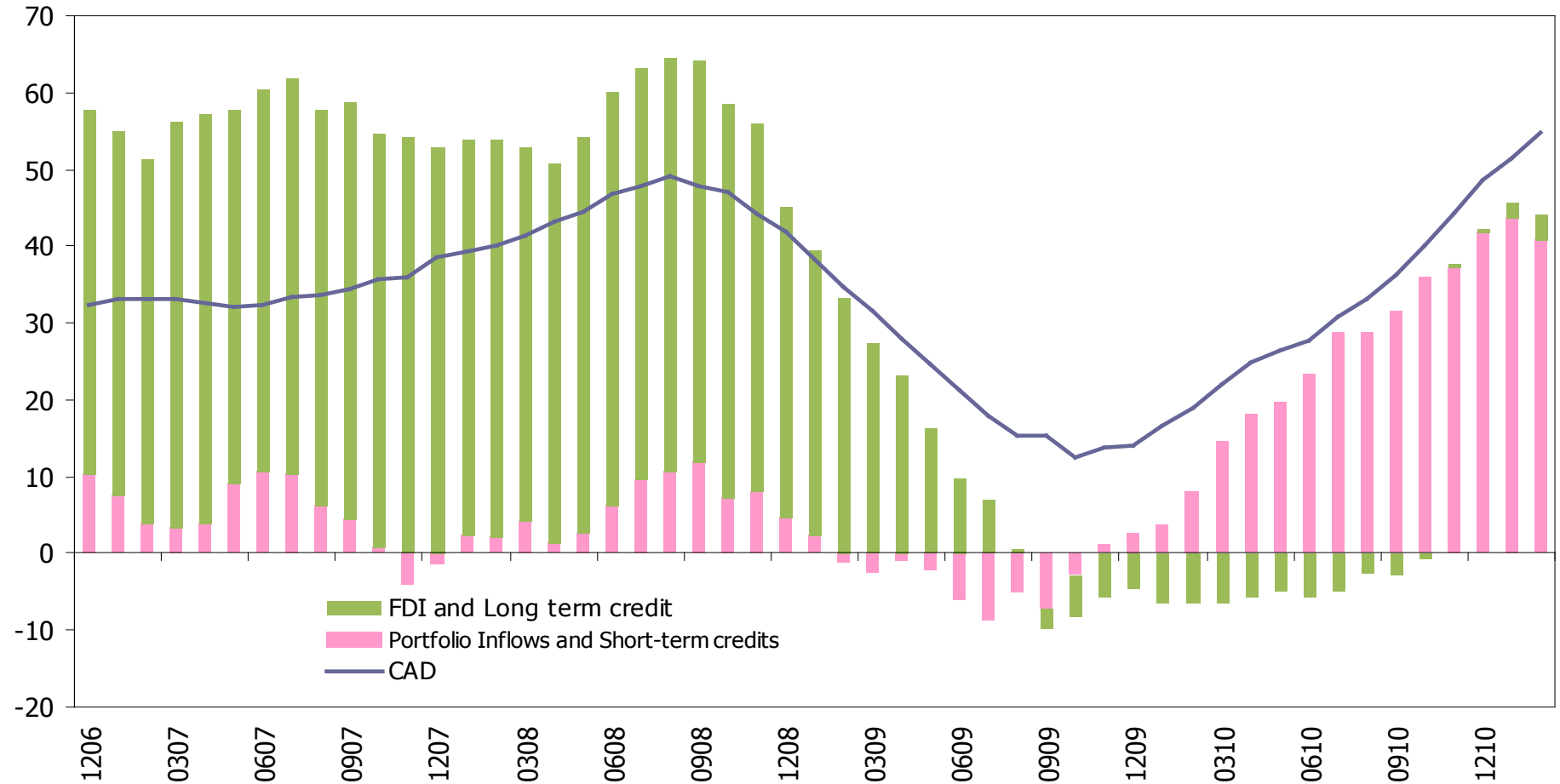


Source: CBRT

Last observations: April 2011 for Credit,

## Worsening CAD financing...

**Finance of Current Account Deficit, USD billion,  
12-month rolling sum**



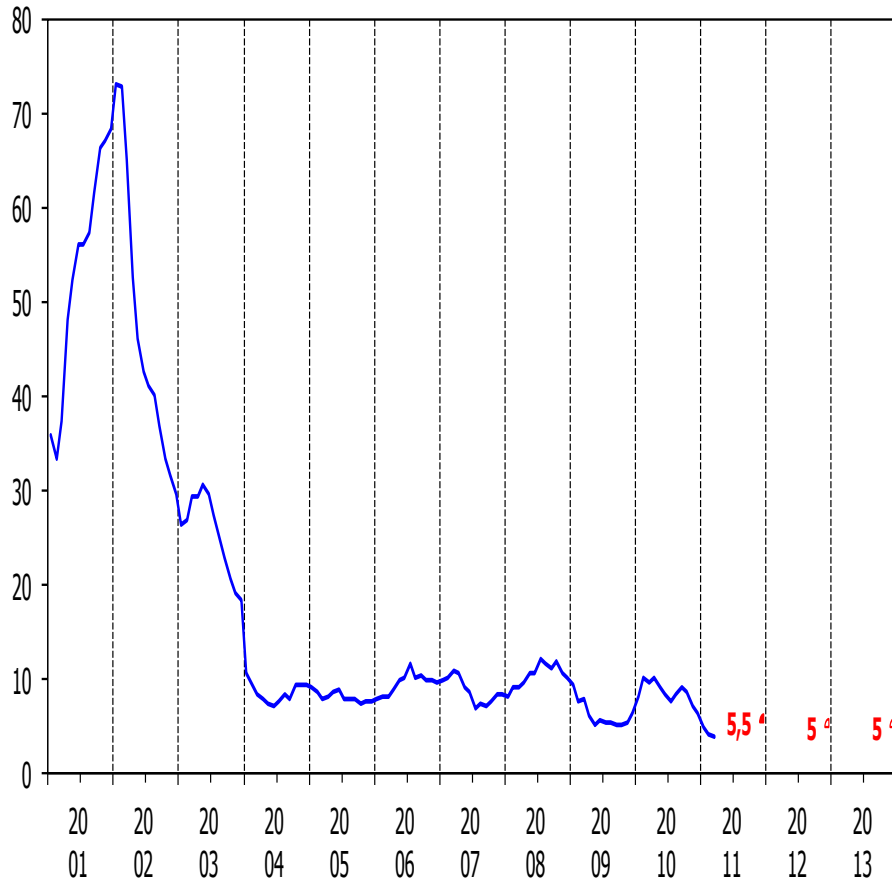
Source: CBRT

Last observations: March, 2011 for BoP, April 2011 for Credit,

# despite disinflation continues

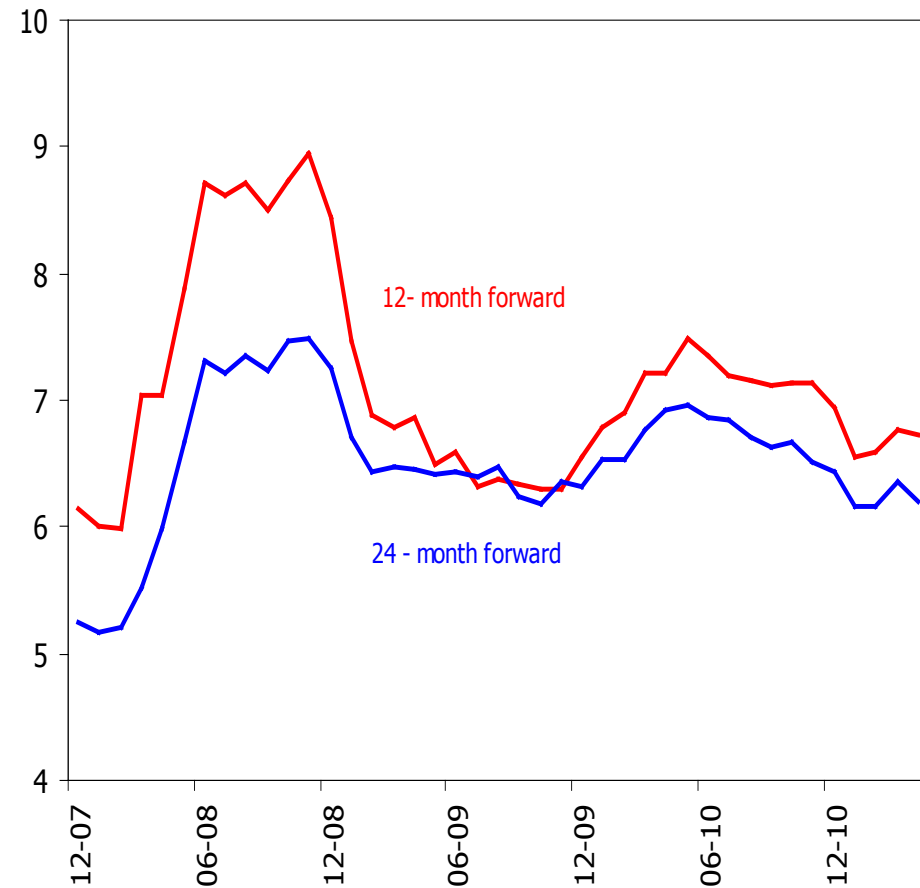
## Inflation Realizations

(%, red dots are the year-end inflation targets)



## Inflation Expectations

(%.)

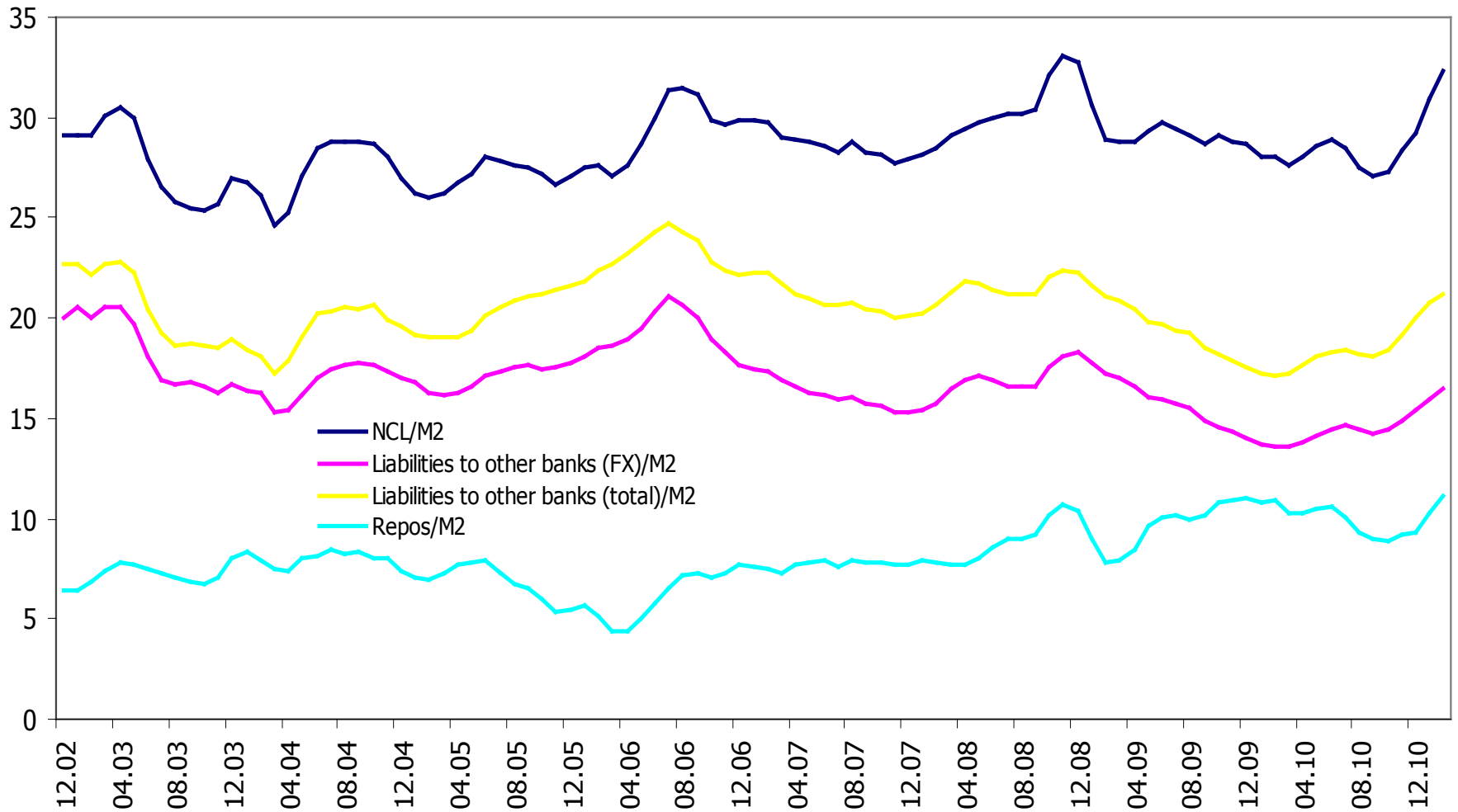


Source: CBRT

Last observations: May, 2011

# *Non-core liabilities: A source of funding for excessive credit?*

**Non-Core Liabilities/M2(%)**



Source: CBRT

Last observations: March, 2011

# *No Dichotomy Between Monetary and Financial Policy*

- ❑ Financial disruptions could do serious harm to economy
- ❑ But also they endanger price stability
- ❑ Monetary and financial policies are intrinsically linked
- ❑ Central banks need to coordinate monetary and financial policy

# **I. Financial Stability Problem**

# **II. Non-Core Liabilities**

# **III. New Policy Mix**

# **IV. Outcomes of the New Policy**

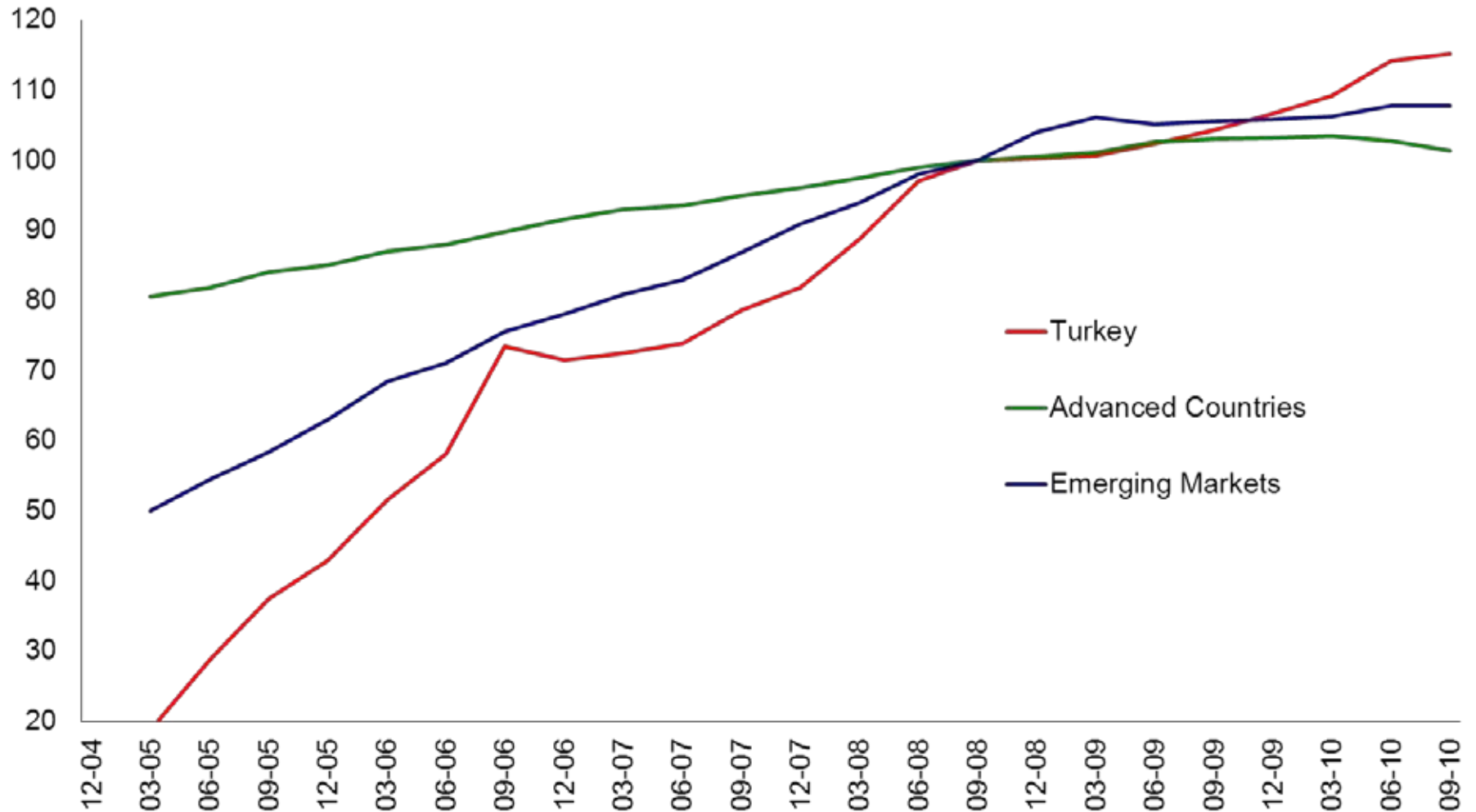
# **V. Discussion on Monetary and Macroprudential Policies**

# I. Financial Stability Problem



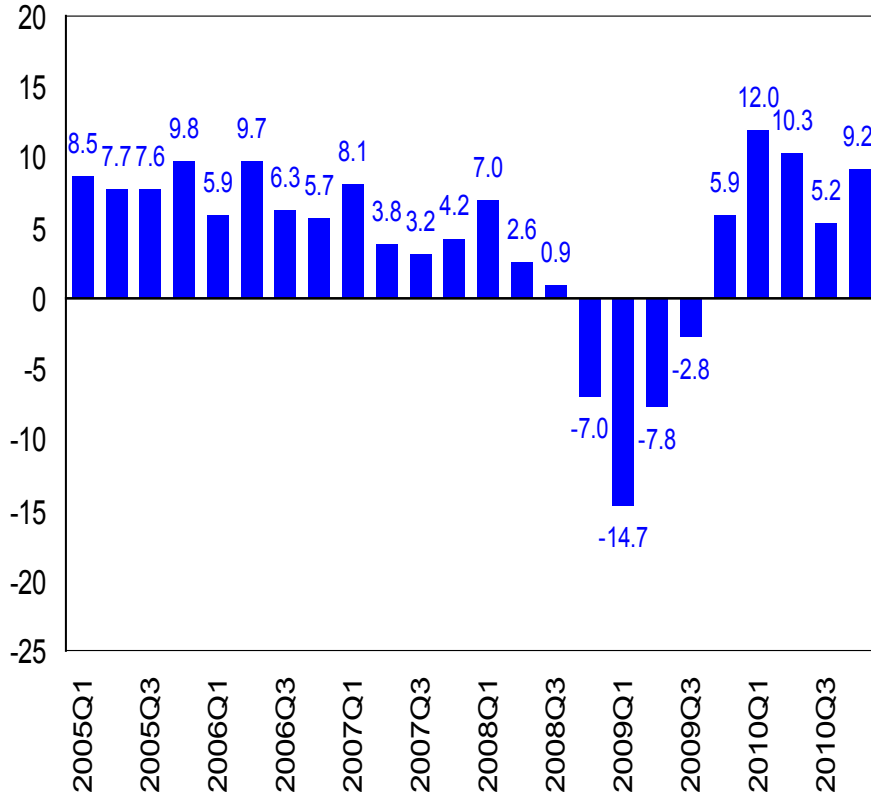
# Excessive credit growth

Total Credits Extended to Private Sector / GDP (2008Q3=100)

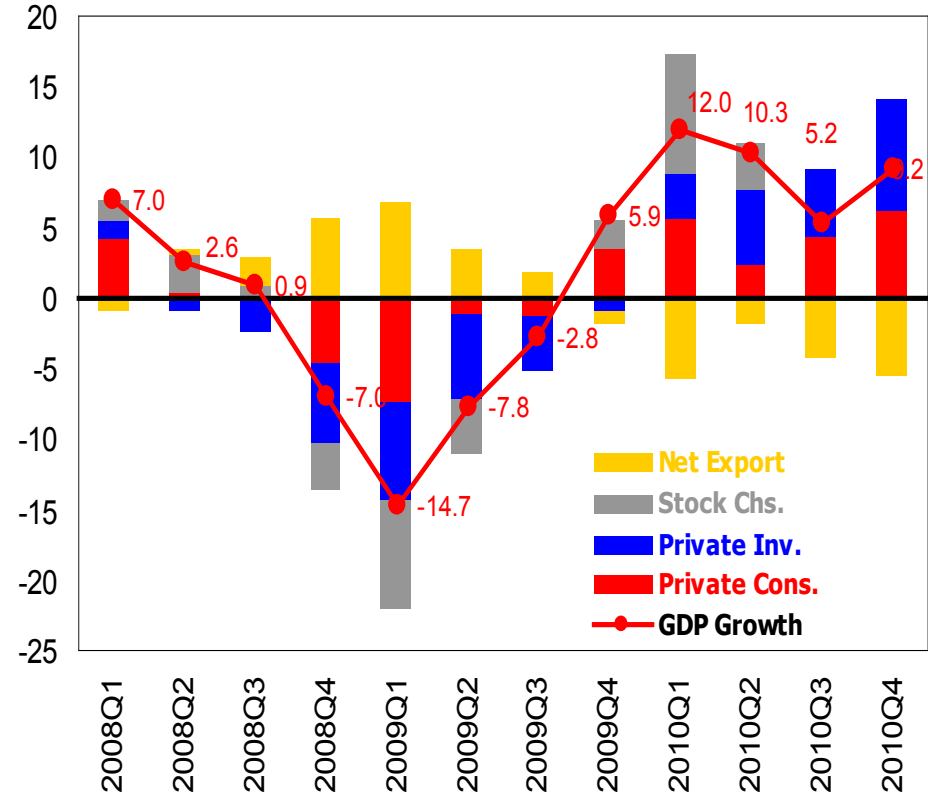


# Recovery in economic activity is more pronounced...

**GDP Growth**  
(%)

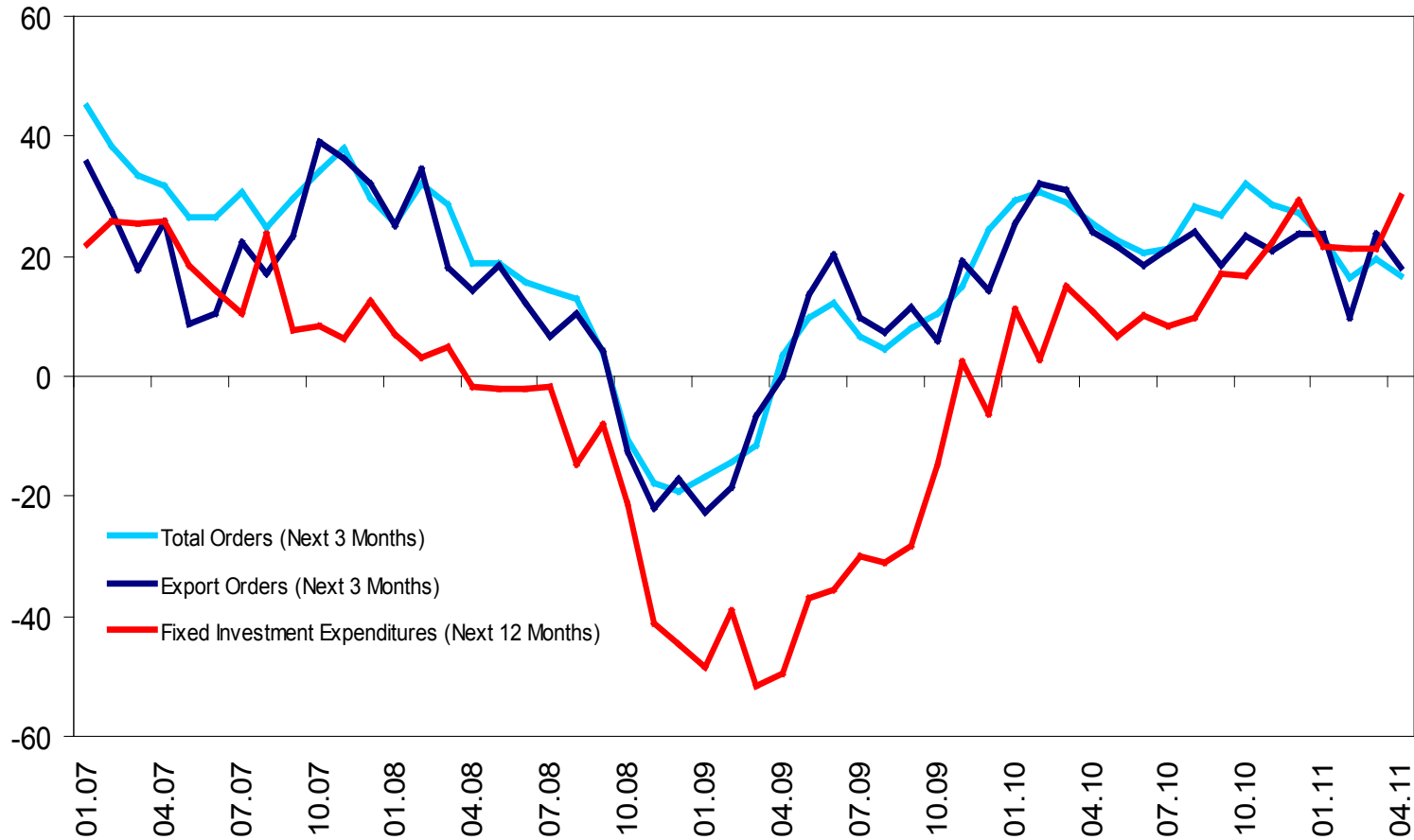


**GDP Growth and its Contributors**  
(%)



# ...and surveys point to an ongoing growth

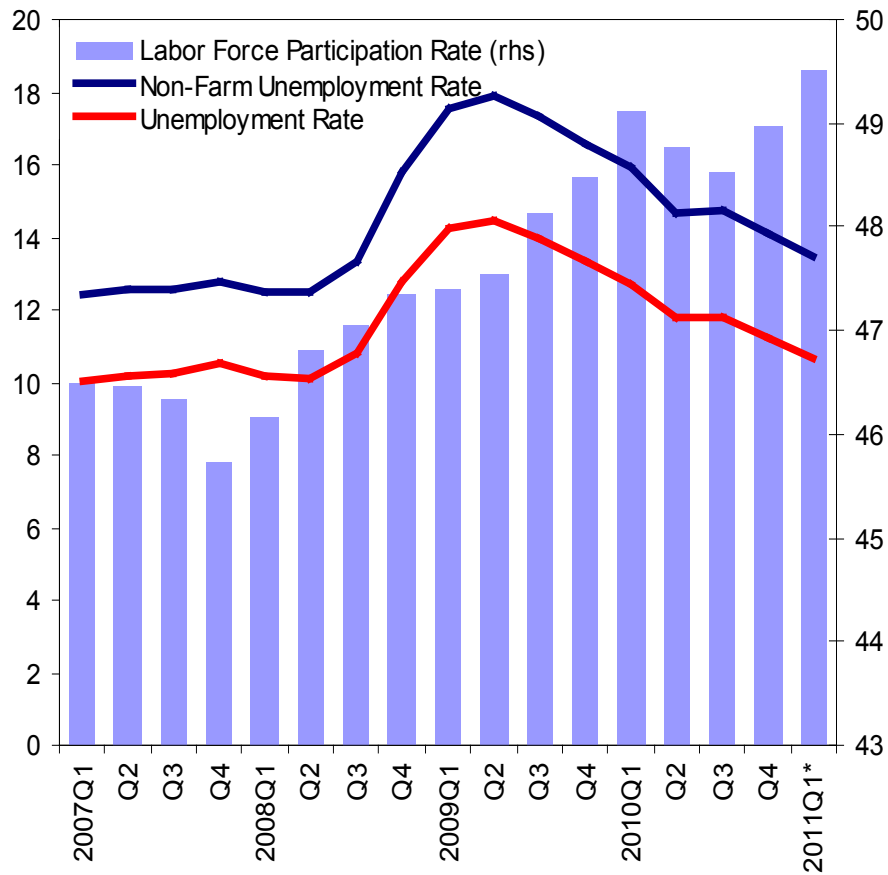
## New Orders and Investment Expectations (Seasonally Adjusted,)



# Employment is recovering and labor cost is stable....

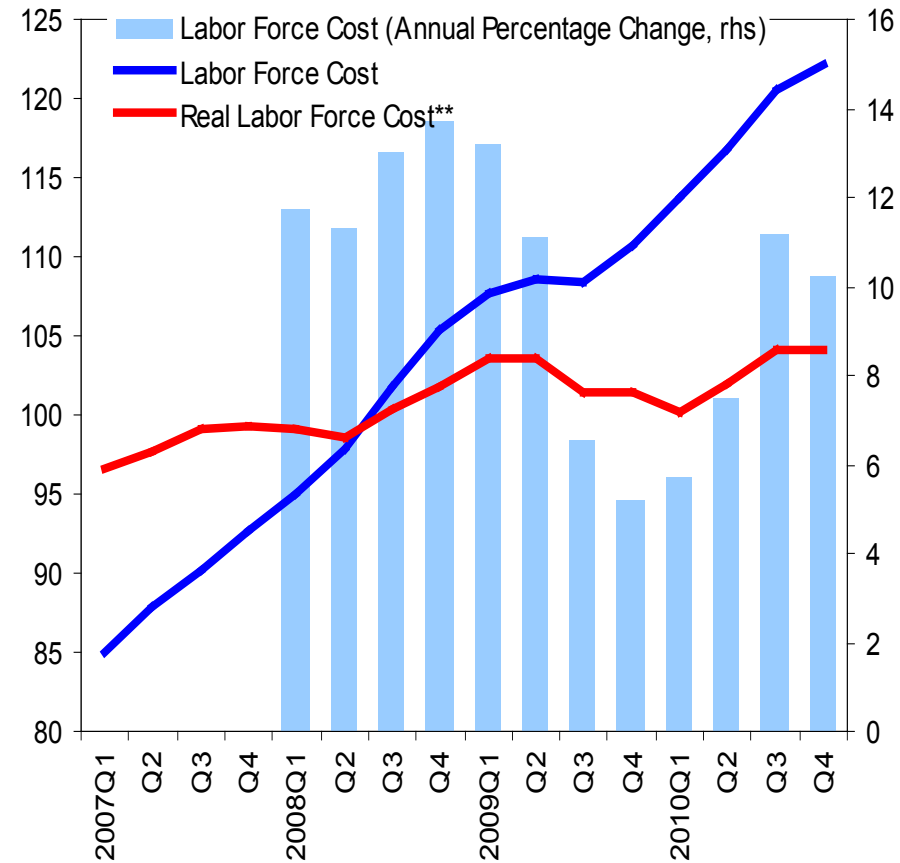
## Unemployment Rates

(Seasonally Adjusted, percentages)



## Hourly Labor Force Cost

(Seasonally Adjusted, 2008=100)

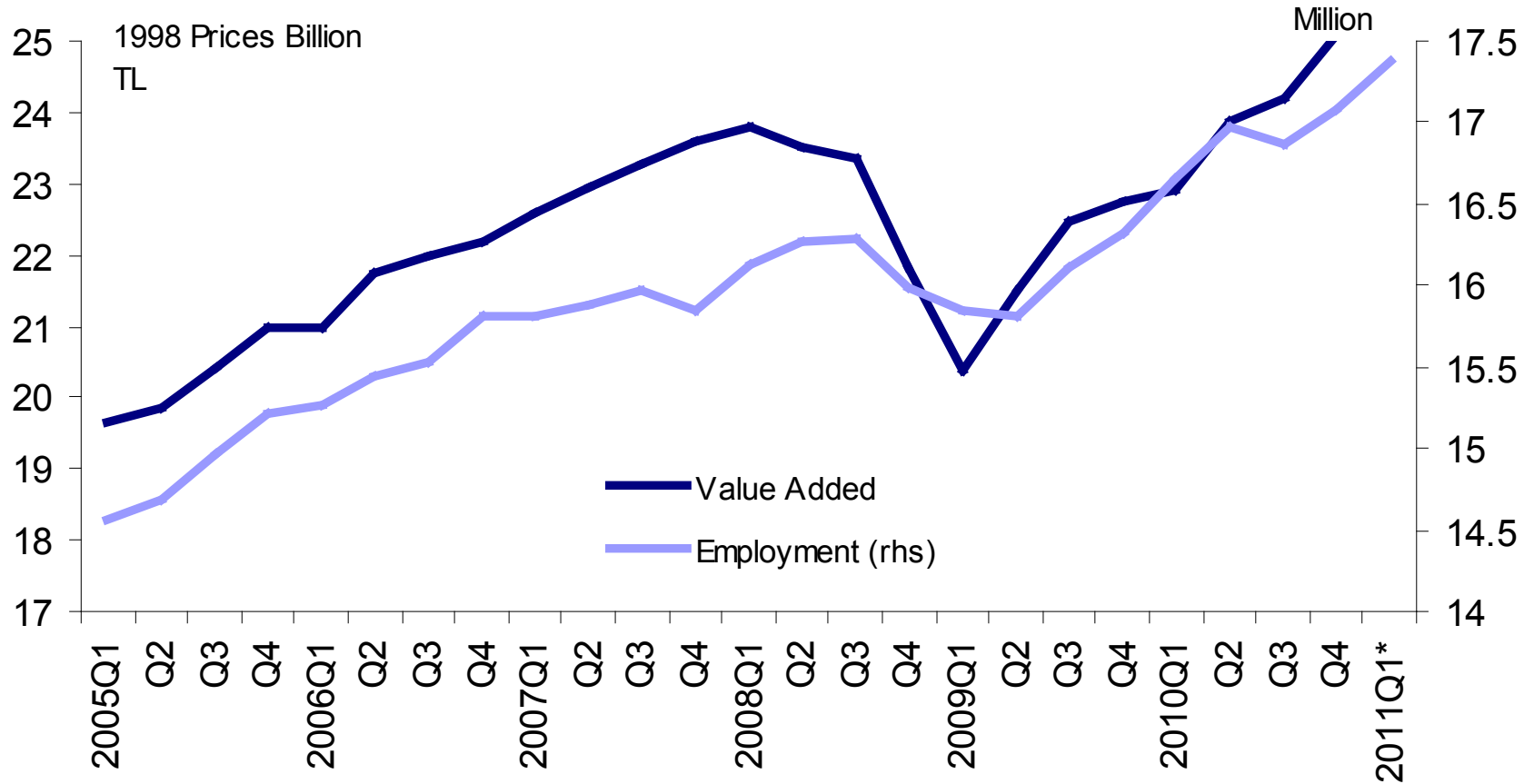


Source: TURKSTAT, CBRT

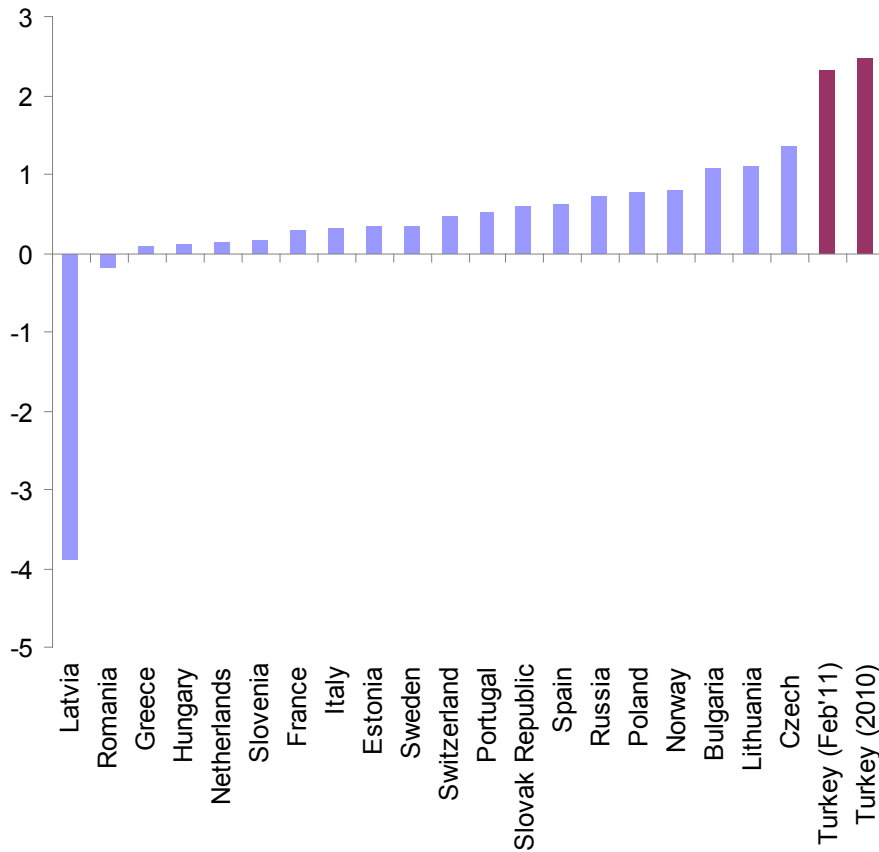
\*As of January, \*\*Deflated by CPI

*... while labor productivity continues to rise*

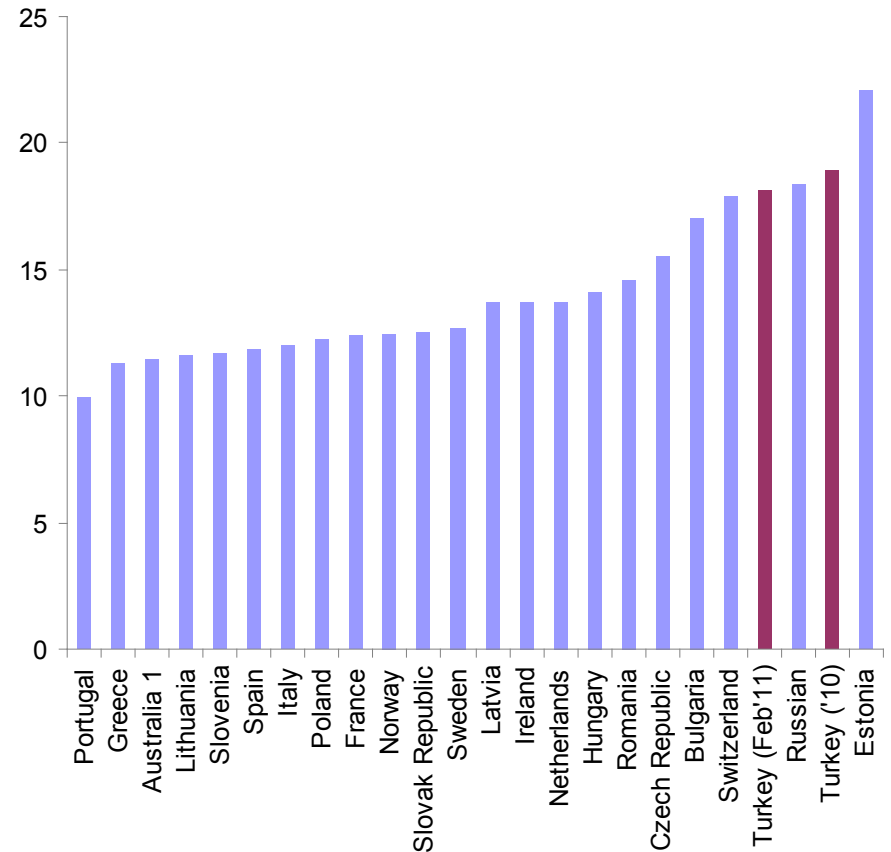
**Non-Farm Value Added and Employment**  
(Seasonally Adjusted,)



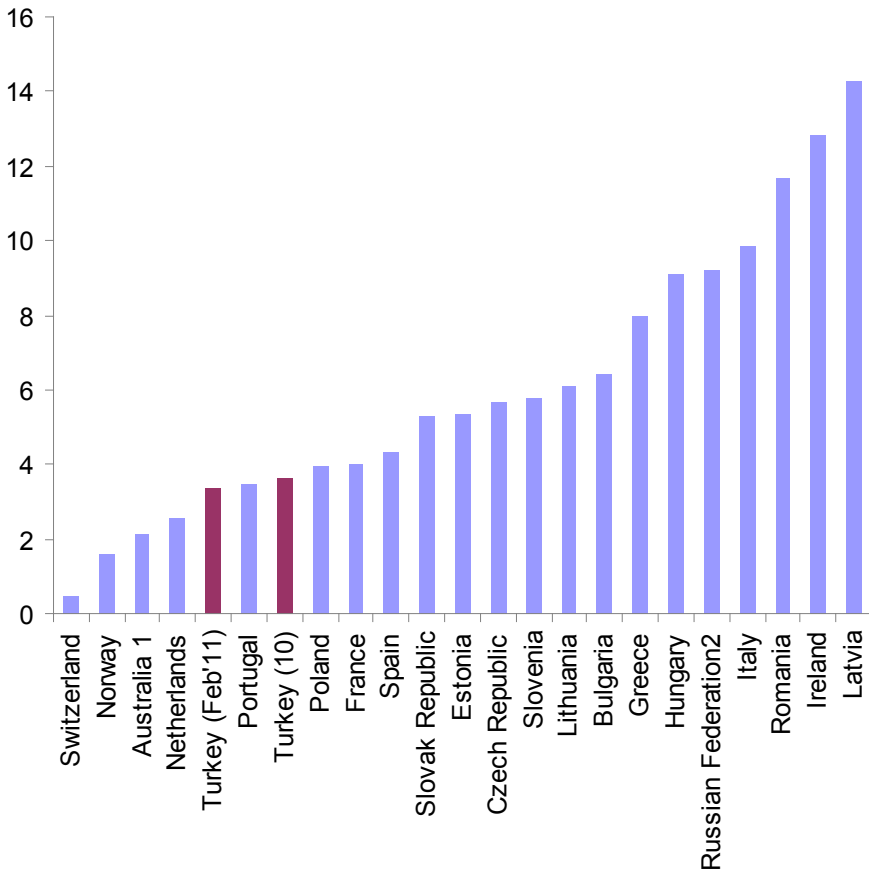
## Return on Assets (%)



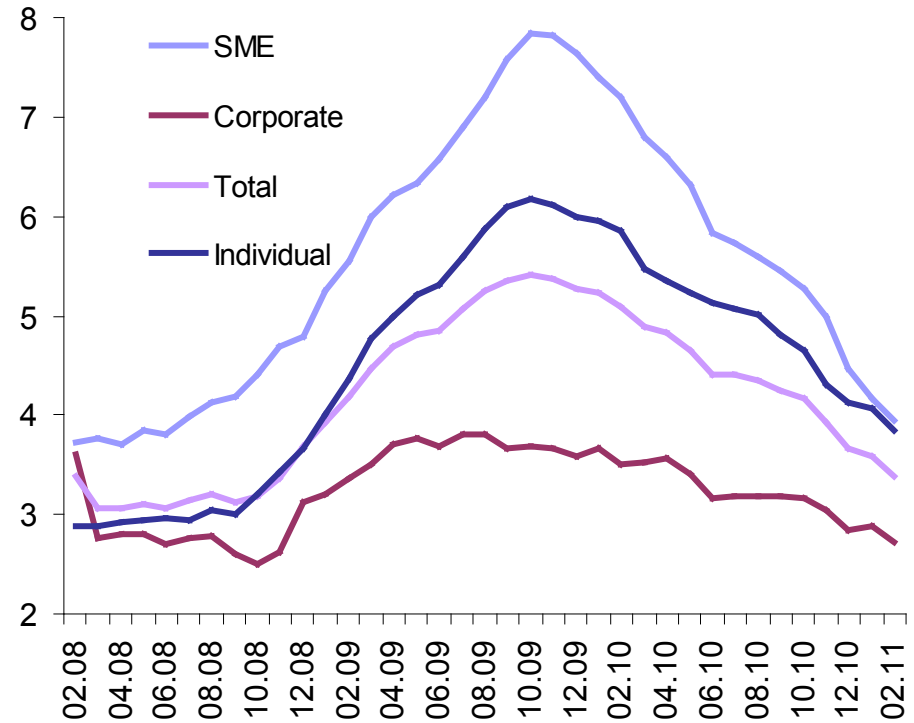
## Capital Adequacy Ratio (%)



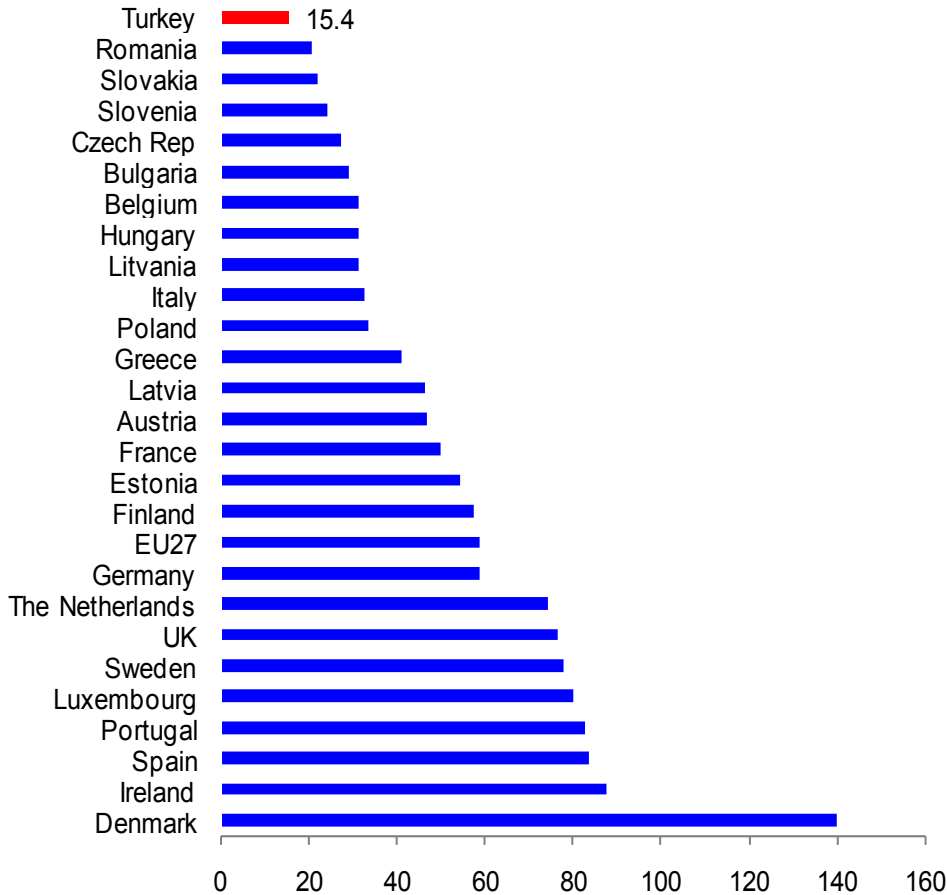
**NPL Ratios of Selected Countries**  
(%)



**NPL Ratios in Turkey**  
(%)



## Household Liabilities to GDP Ratios (%)



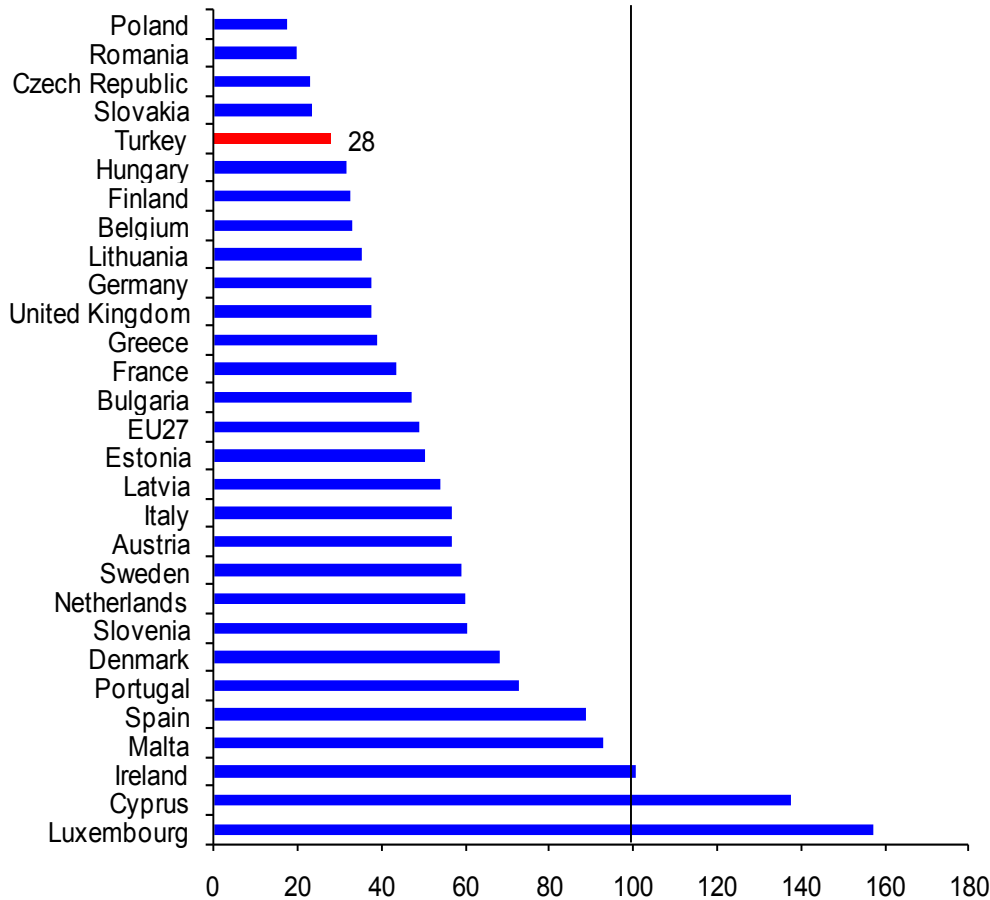
## Household FX Positions

	2009	Sep. 2010
<b>Households FX Assets*</b>	67,597	69,338
<b>Households FX Liabilities*</b>	2,172	1,572
<b>FX Position*</b>	65,425	67,766
<b>GDP*</b>	616,753	734,723
<b>FX Position/GDP (%)</b>	+10.6	+9.2

\* (USD million)



**Bank Loans to Non Financial Companies  
(% of GDP)**



**Non Financial Companies (NFC) FX  
Positions**

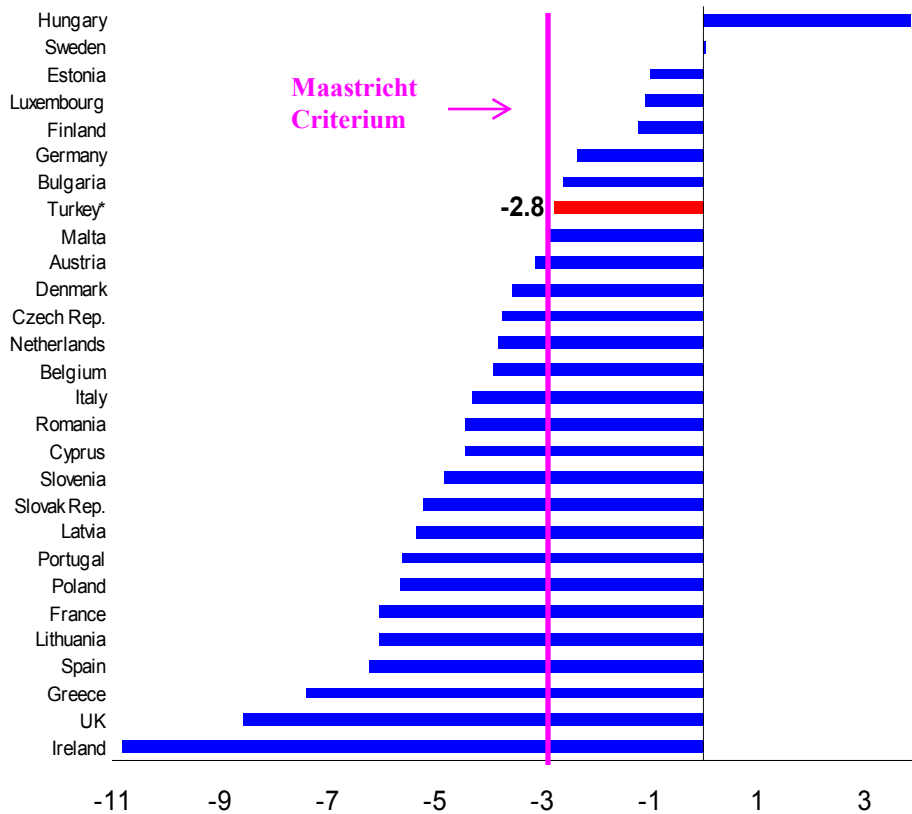
	December 2010
<b>NFC FX Assets*</b>	86.7
<b>NFC FX Liabilities*</b>	181
<b>FX Position*</b>	-94.3
<b>FX Position/GDP (%)**</b>	-12.8

•(USD million).

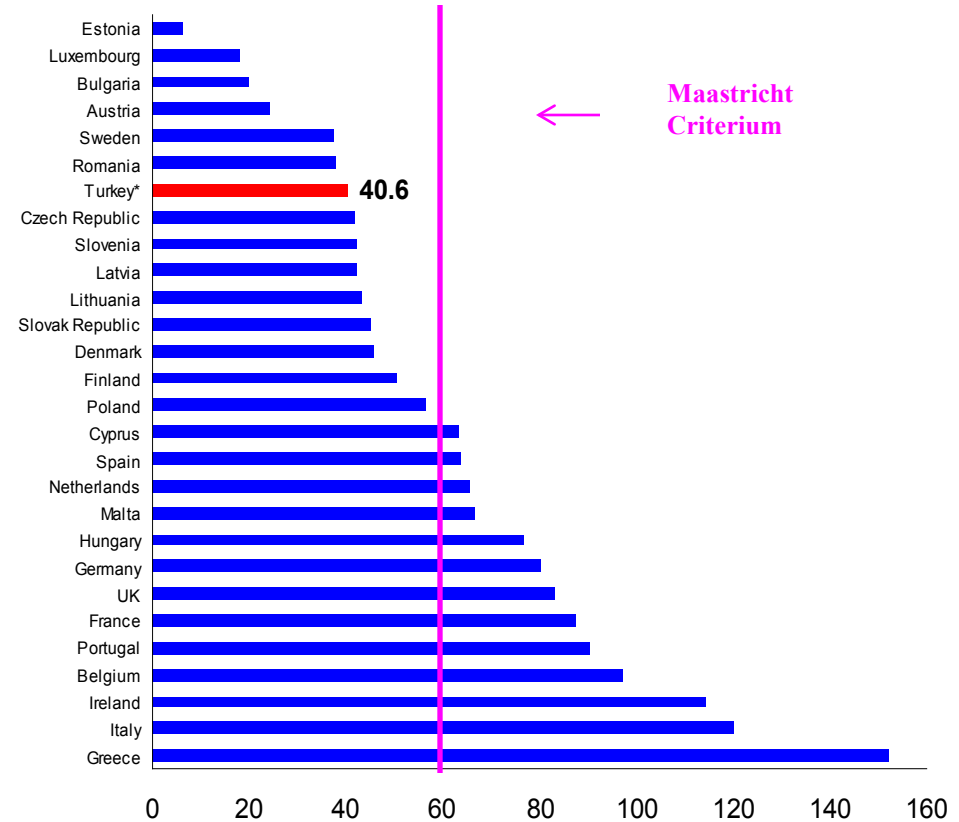
**\*\* Note that the short FX position for short term liabilities are less than 1% of GDP (USD 313 mio). Non-Banking Sector FX position is balanced.**

# ...and sound public balances all support financial stability.

**Budget Deficit Forecast for 2011**  
(% of GDP)



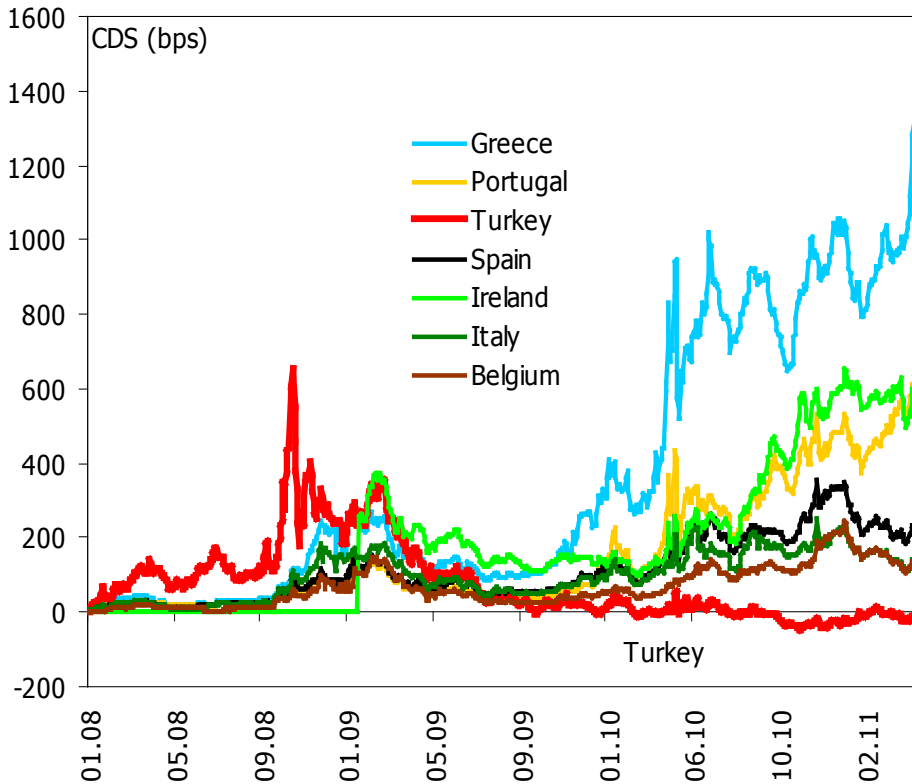
**Public Debt Forecast for 2011**  
(% of GDP)



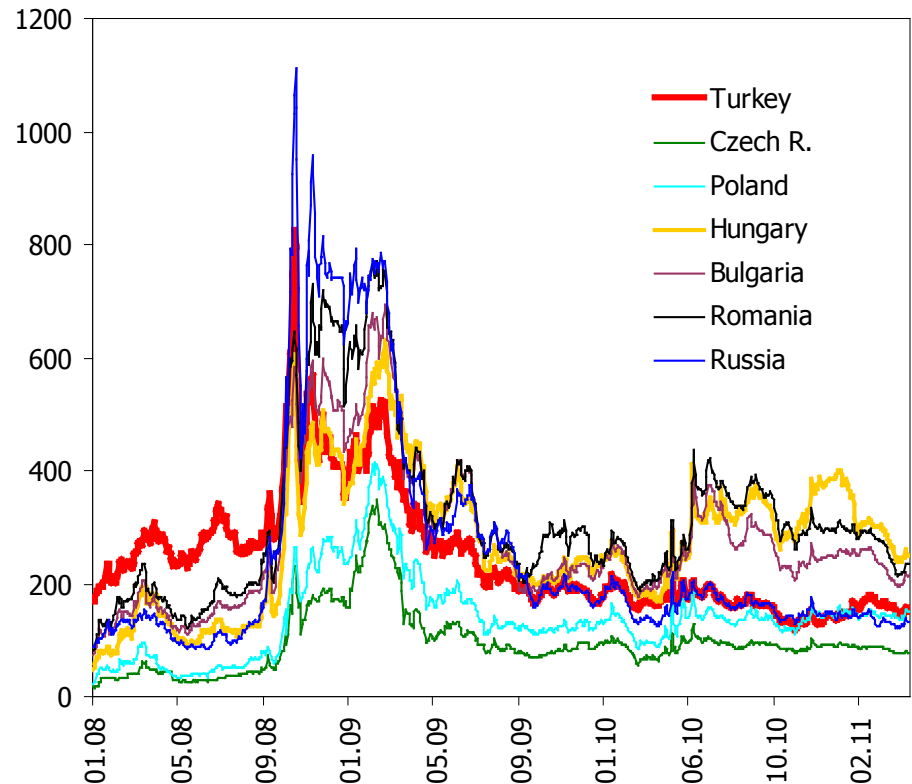
\*: Turkey's budget deficit figure is MTP (2011-2013 projection) for central government. IMF WEO April 2011 budget deficit forecast for Turkey is 1.7% and better than what was envisaged in Turkey's MTP as 2.1% for general government.

\*: Turkey's debt figure is MTP (2011-2013) projection. IMF WEO April 2011 public debt forecast for Turkey is 39.4%.

**CDS Premia of Selected Countries**  
(January 1, 2008=0, May 06, 2011)



**CDS Premia of Selected Countries**  
(January 1, 2008 - May 06, 2011)

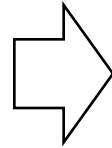


## *Risks to financial stability are rising.*

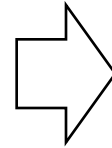
### Advanced Economies

Low Growth rates  
&  
Very Low Interest Rates

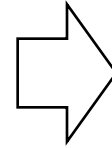
+



Capital Inflows  
to Emerging  
Markets



Credit Growth  
&  
Risk of  
Overheating

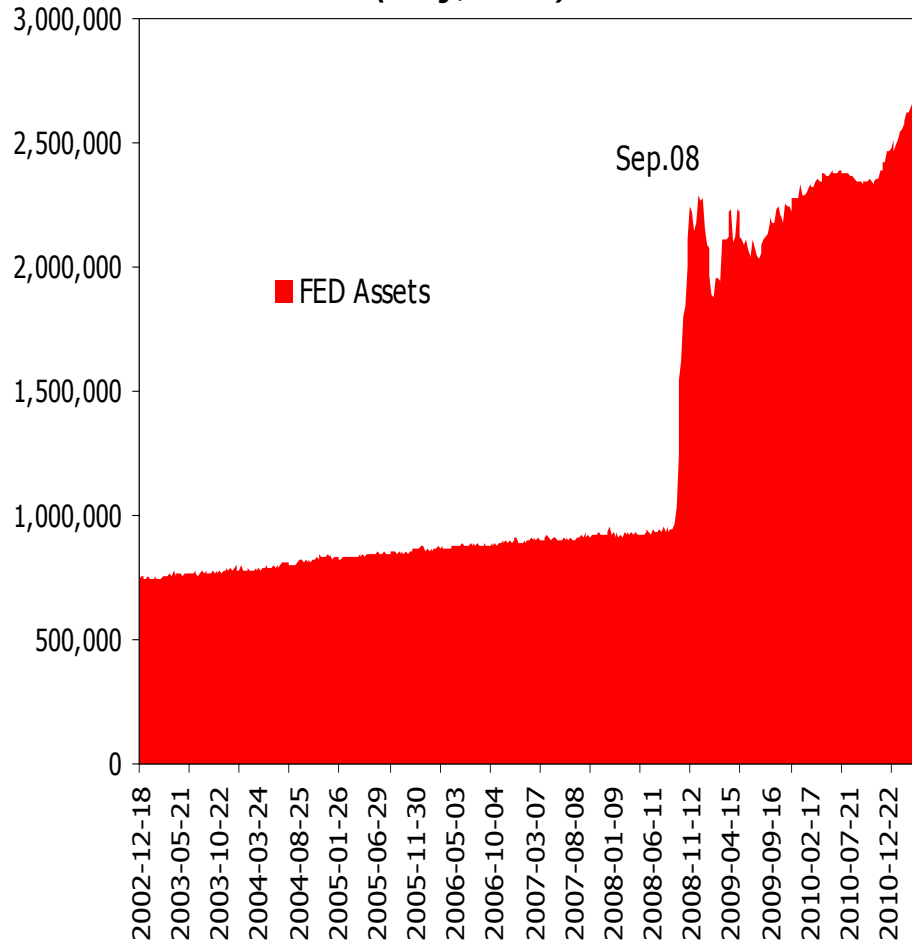


Risk of  
future  
instability!

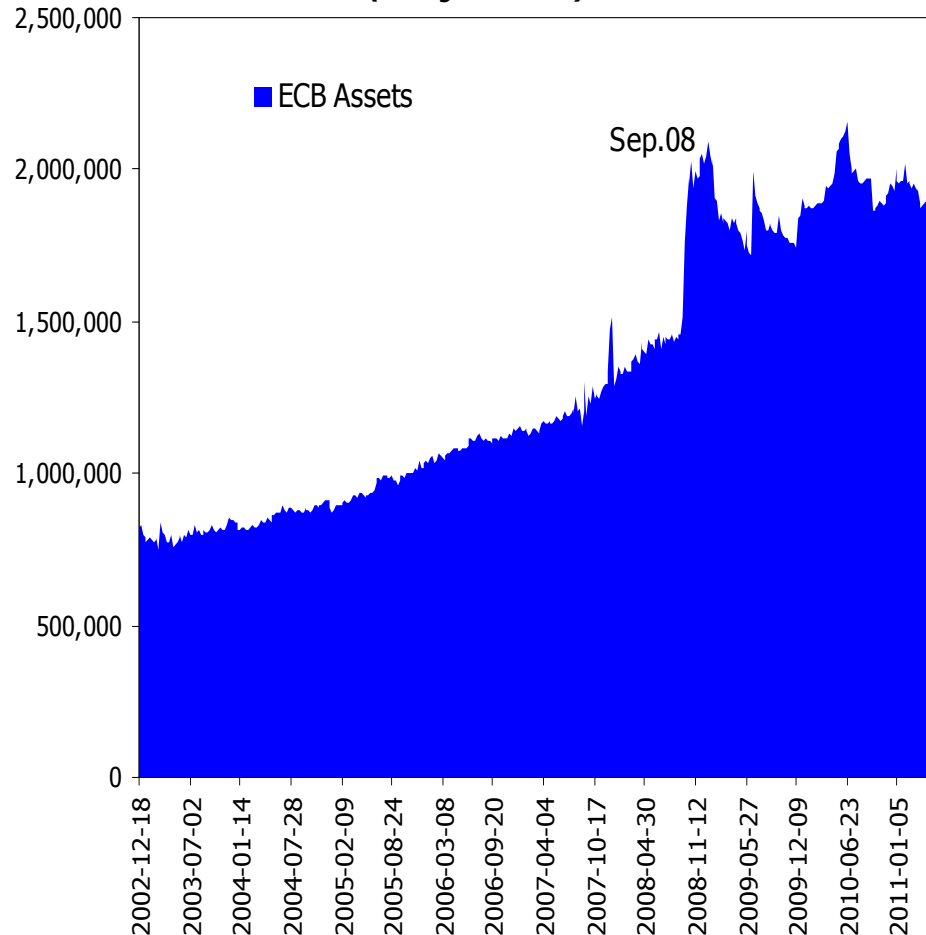
### Emerging Markets

Strong Growth Prospects  
&  
High Interest Rates

**FED's Total Balance Sheet (assets, billion USD)**  
*(May, 2011)*

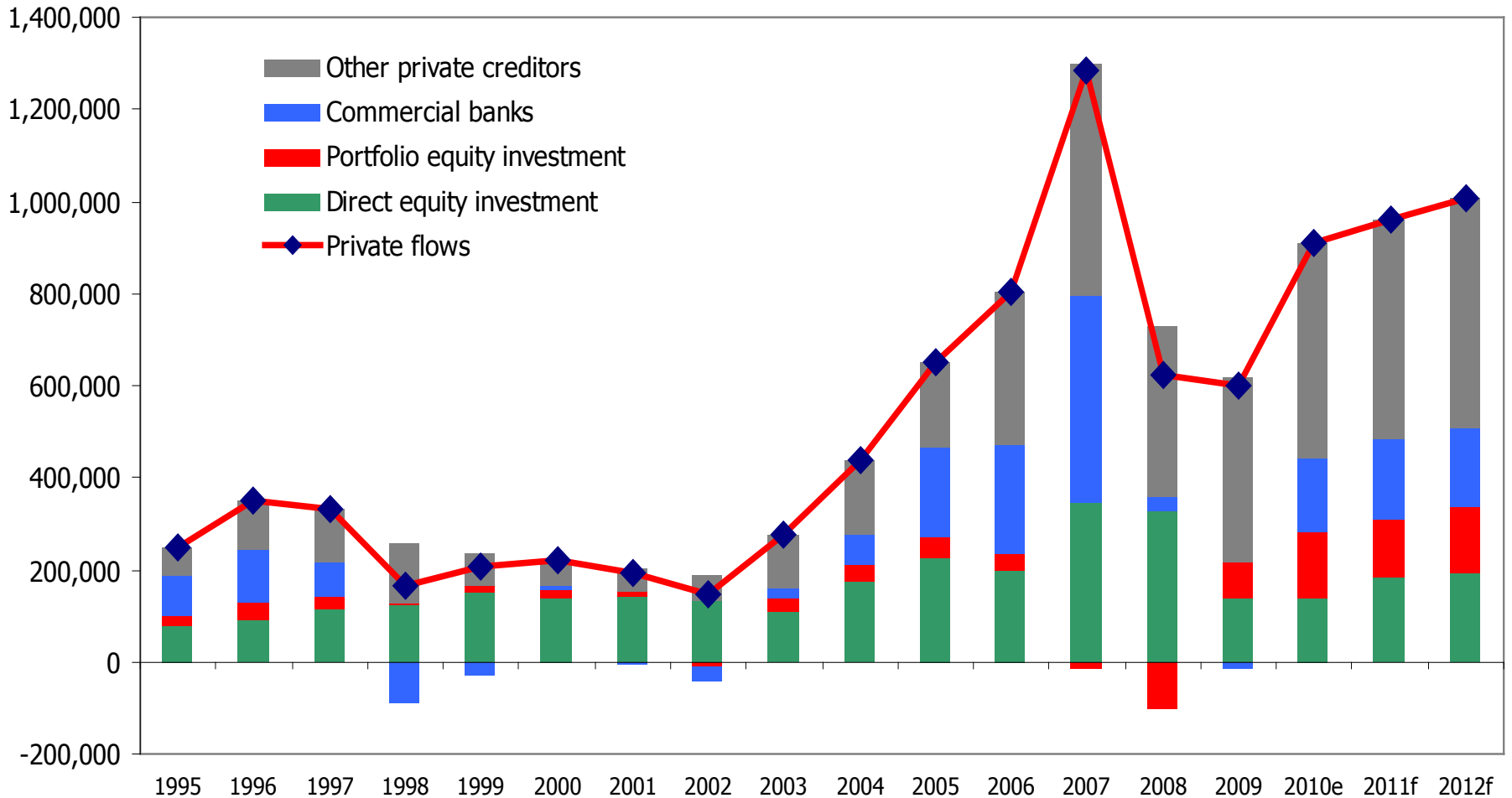


**ECB's total Balance Sheet (assets, billion EUR)**  
*(May, 2011)*



## Global liquidity is leading to capital flows

**Net Capital Flows towards Emerging Markets Economics**  
(thousand USD)



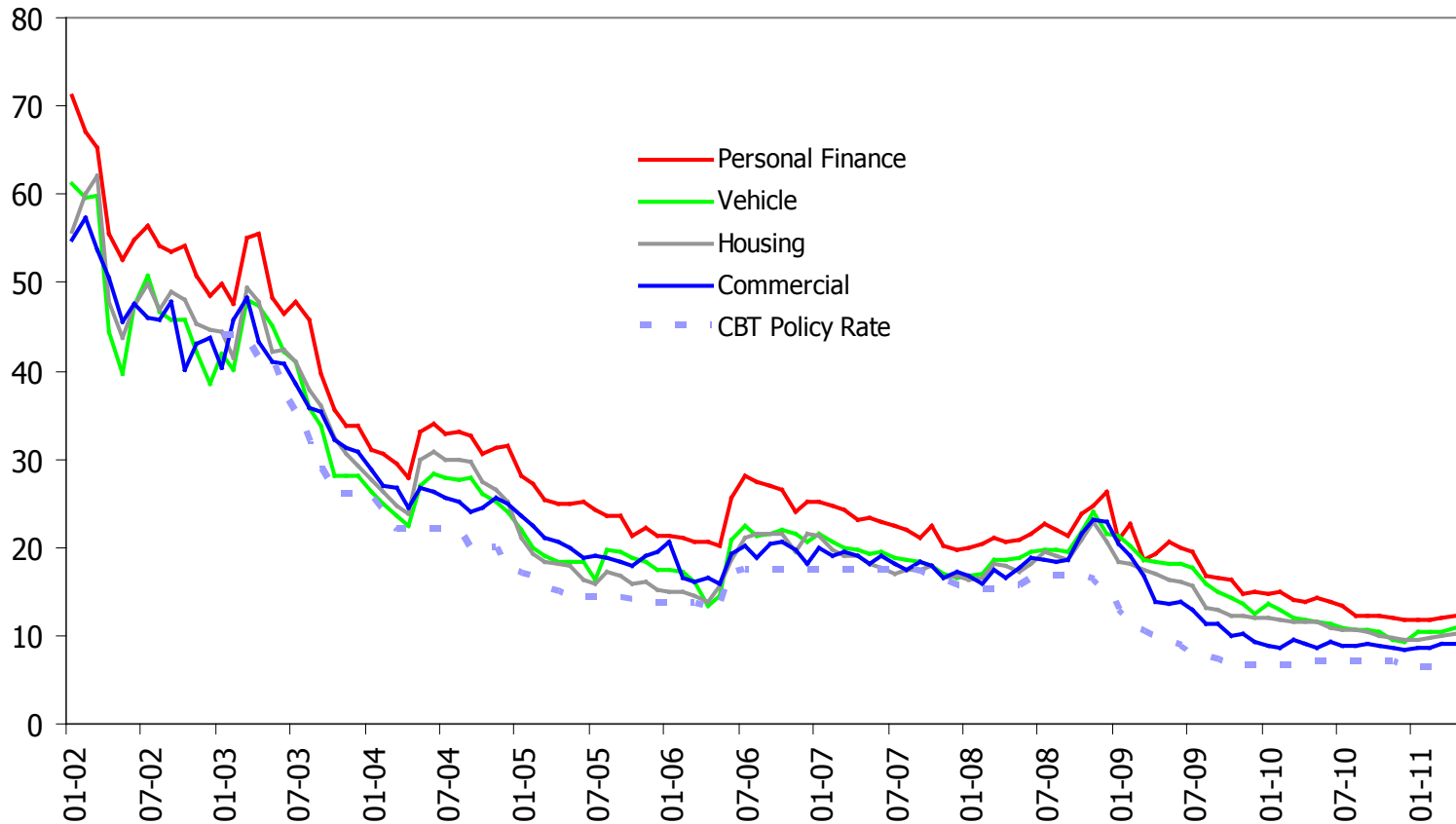
Source: IIF, 2011

e: estimation, f: forecast

# Financing Costs declined significantly in the last decade.

## Lending Rates

(%, weighted averages for the categories)

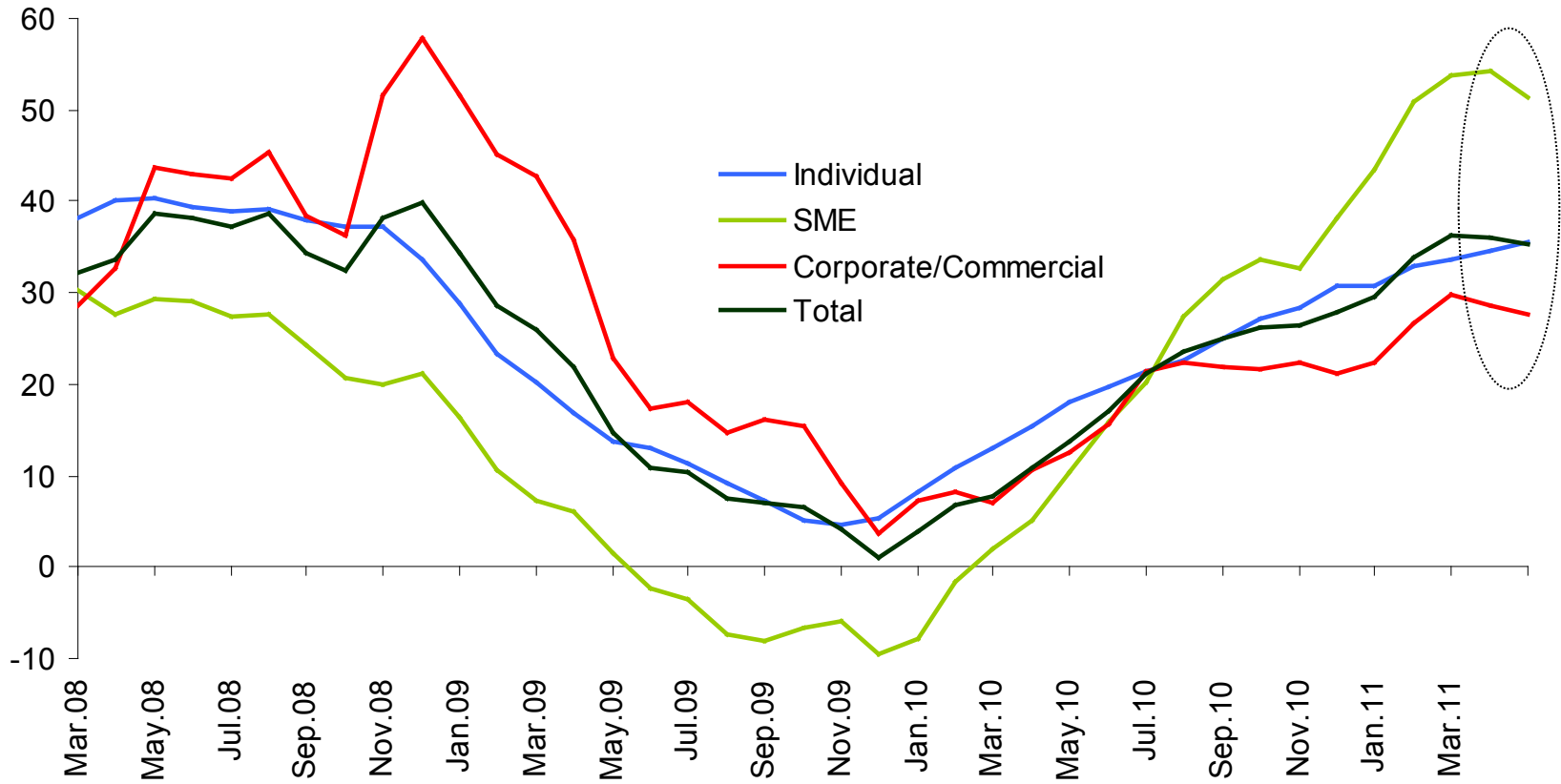


Source: CBRT

Last Observation: April 2011

**Loan Growth**

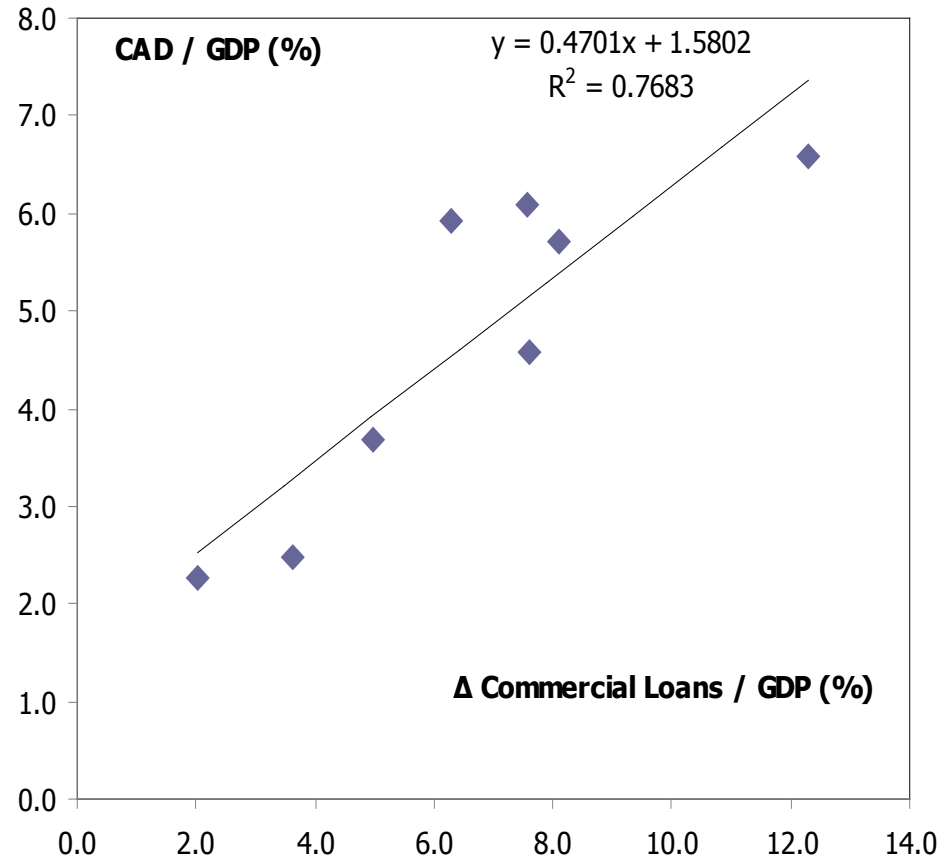
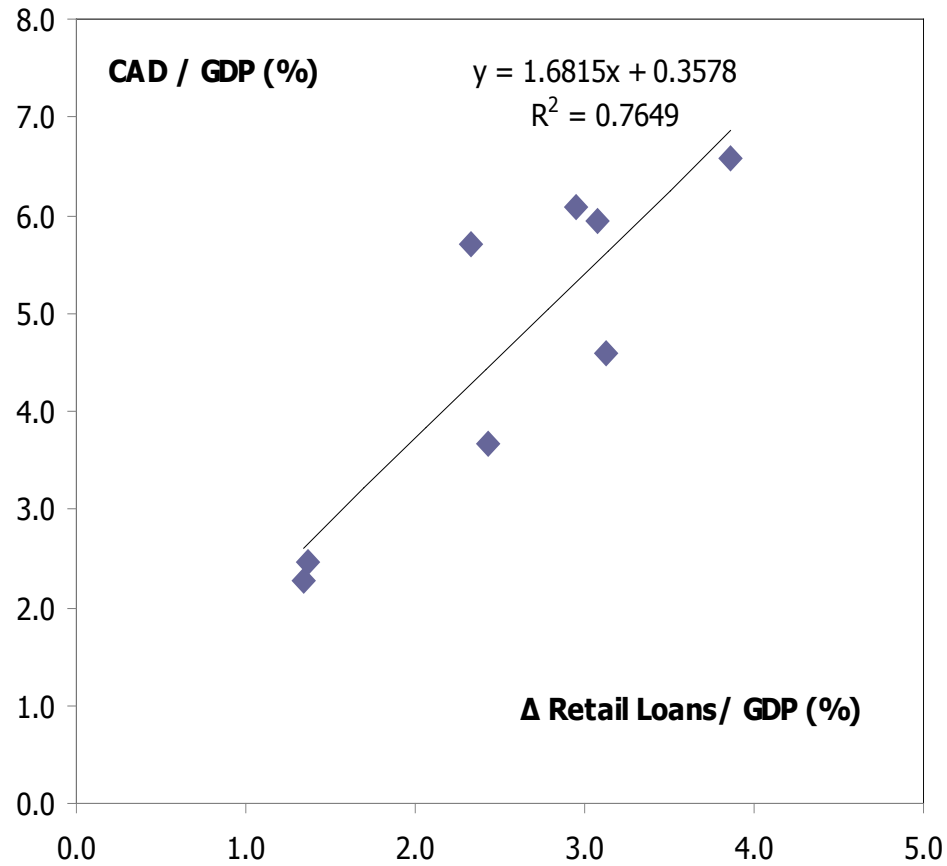
(%, year-on-year change)





# Statistical relationship between CAD and credit growth

## Credit Growth and Current Account Deficit



Source: CBRT

Last observations: December, 2010

## II. Non-Core Liabilities

## □ Core Liabilities

- e.g. household deposits
  - Reliable
  - Relatively cheaper
  - Move with the aggregate wealth of the household

## □ Non-core liabilities

- e.g. borrowing from other banks
  - Sensitive to market conditions
  - Relatively more expensive
  - Procyclical
  - Short-term nature

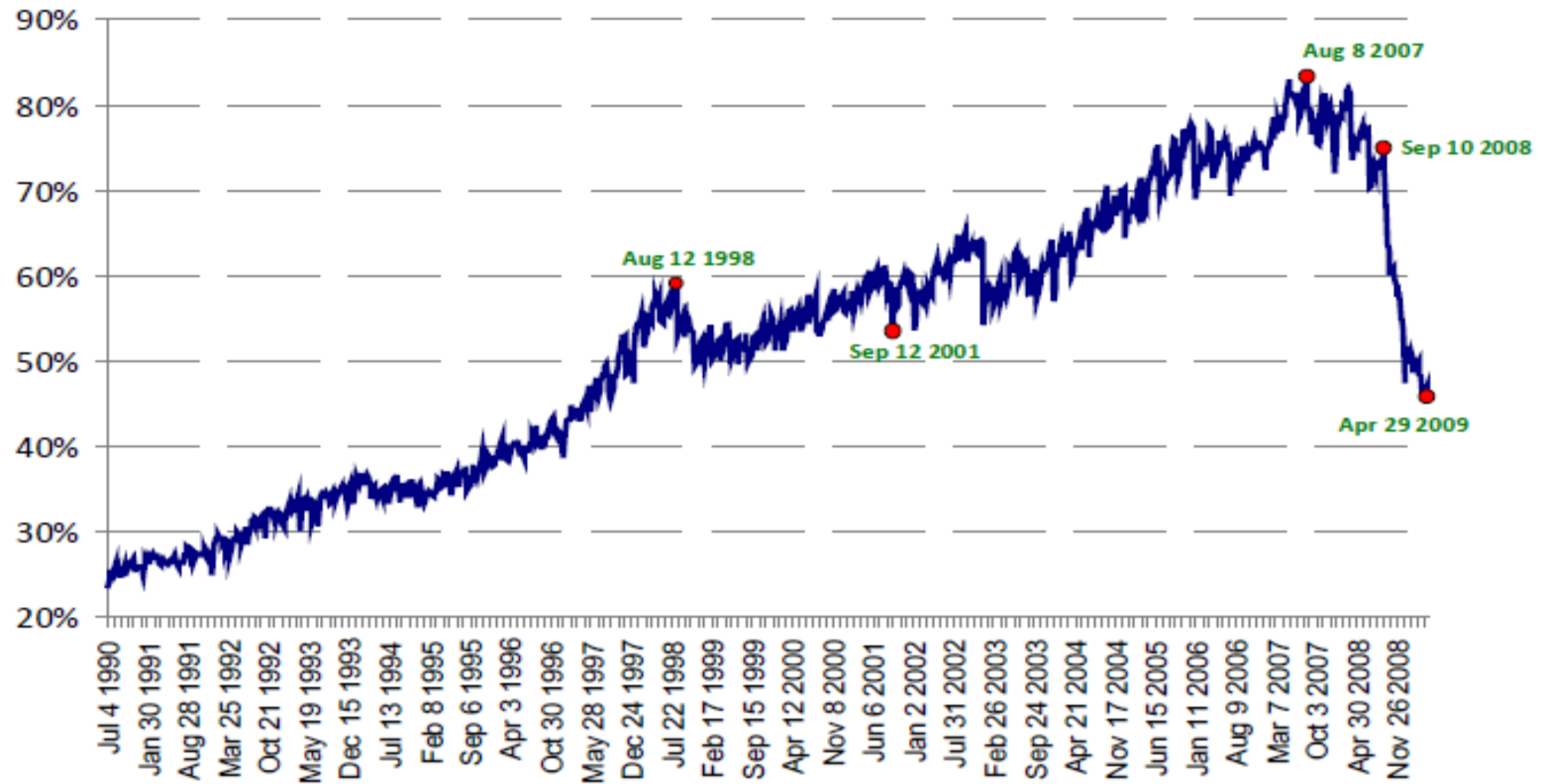
# Core and Non-Core Liabilities

	<b>Core Liabilities</b>	<b>Intermediate</b>	<b>Non-core Liabilities</b>
	<i>(Households)</i>	<i>(Nonfin. Corp.)</i>	<i>(Financial Institutions)</i>
<b>Highly Liquid</b>	Demand Deposits	Demand Deposits	Demand Deposits
	Short Term Deposits (till 1-month)	Short Term Deposits (till 3-months)	Funds from Repo Transactions
			Short Term Payables to Banks
<b>Intermediate</b>	Time Deposits (1 month - 1 year)	Time Deposits	Term Deposits
			Medium and Long Term Payables to Banks
<b>Illiquid</b>	Long Term Deposits ( $\geq 1$ year)		Subordinated Debt
			Securities issued

# *Non-core liabilities: Procyclicality*

- ❑ During booms: credit growth  $>$  deposit growth
- ❑ Need for alternative sources of funding!
- ❑ Excess liquidity: both before and after crises!
  - Capital flows to emerging markets.
- ❑ Shin (2010)
  - *U.S. is a net creditor in the banking sector even though it is a very large debtor overall. In effect, the U.S. borrows long and lends short through the banking sector.*
- ❑ Non-core liabilities: an indicator for financial stability?

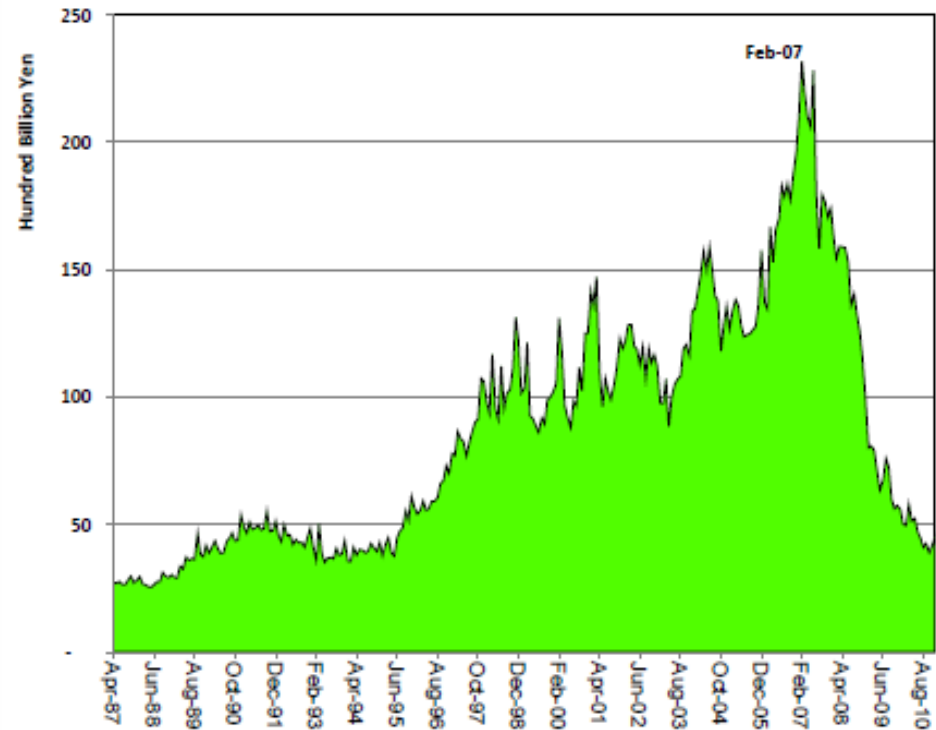
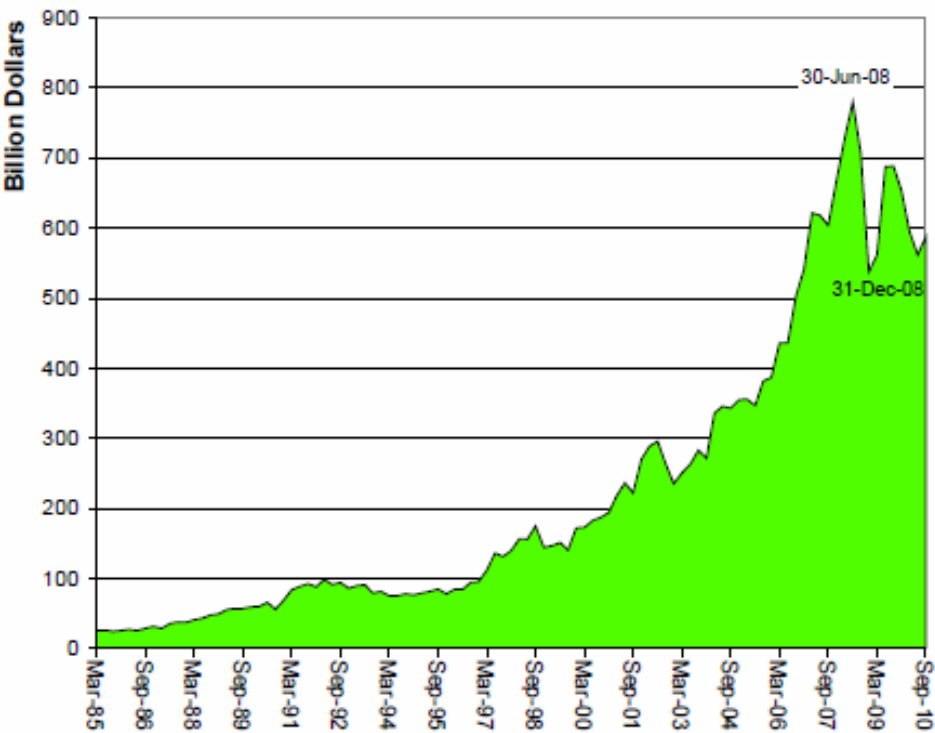
# Non-core liabilities: US case



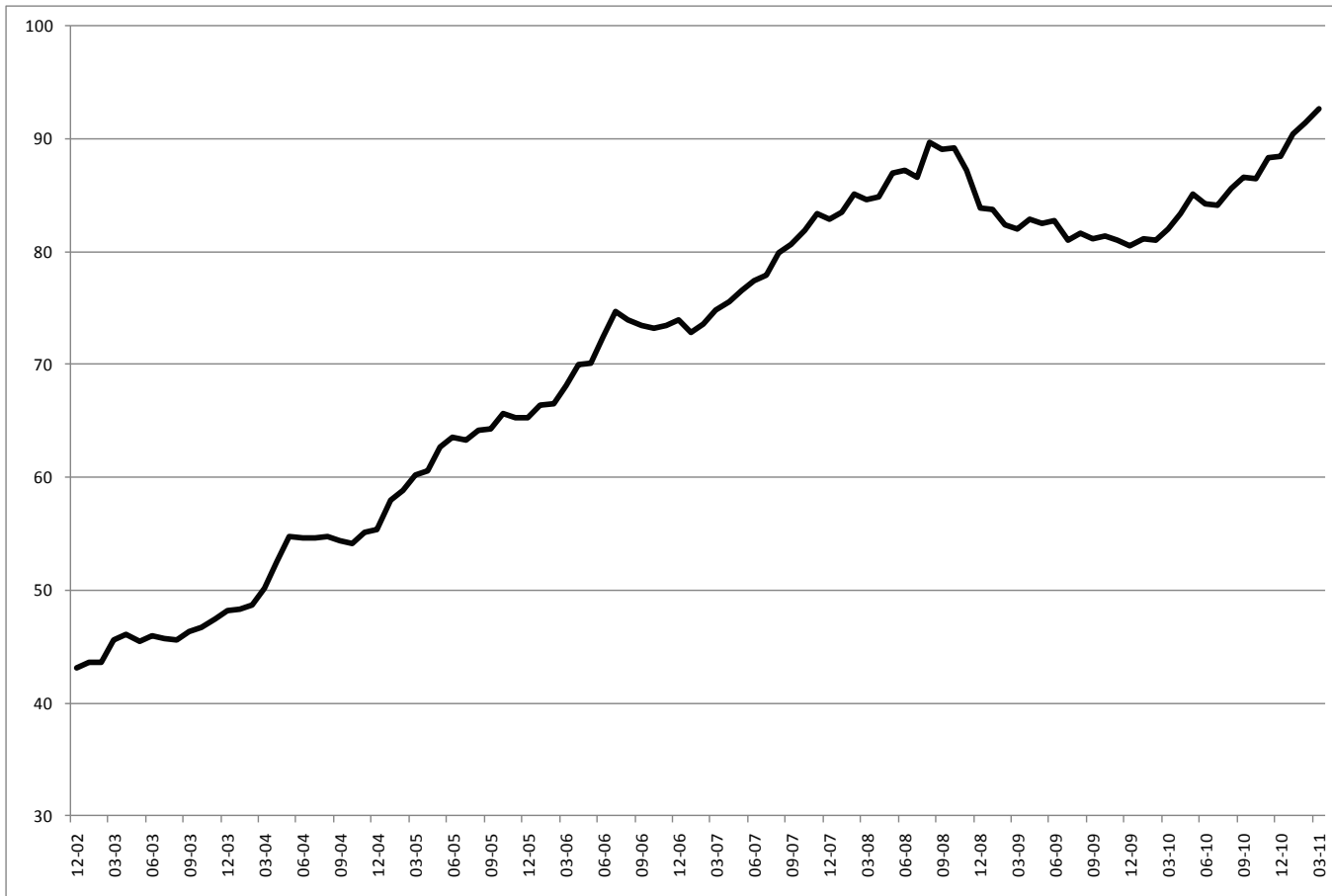
- A tax of 15 b.p. on non-core liabilities is proposed by Obama gov't.
- This works as a tool for macro-prudential regulation as well! (Shin, 2010)

# Non-core liabilities: US case

*Interoffice assets of foreign bank branches in US and Japan*



## Loan to Deposit Ratio (%) is robust:

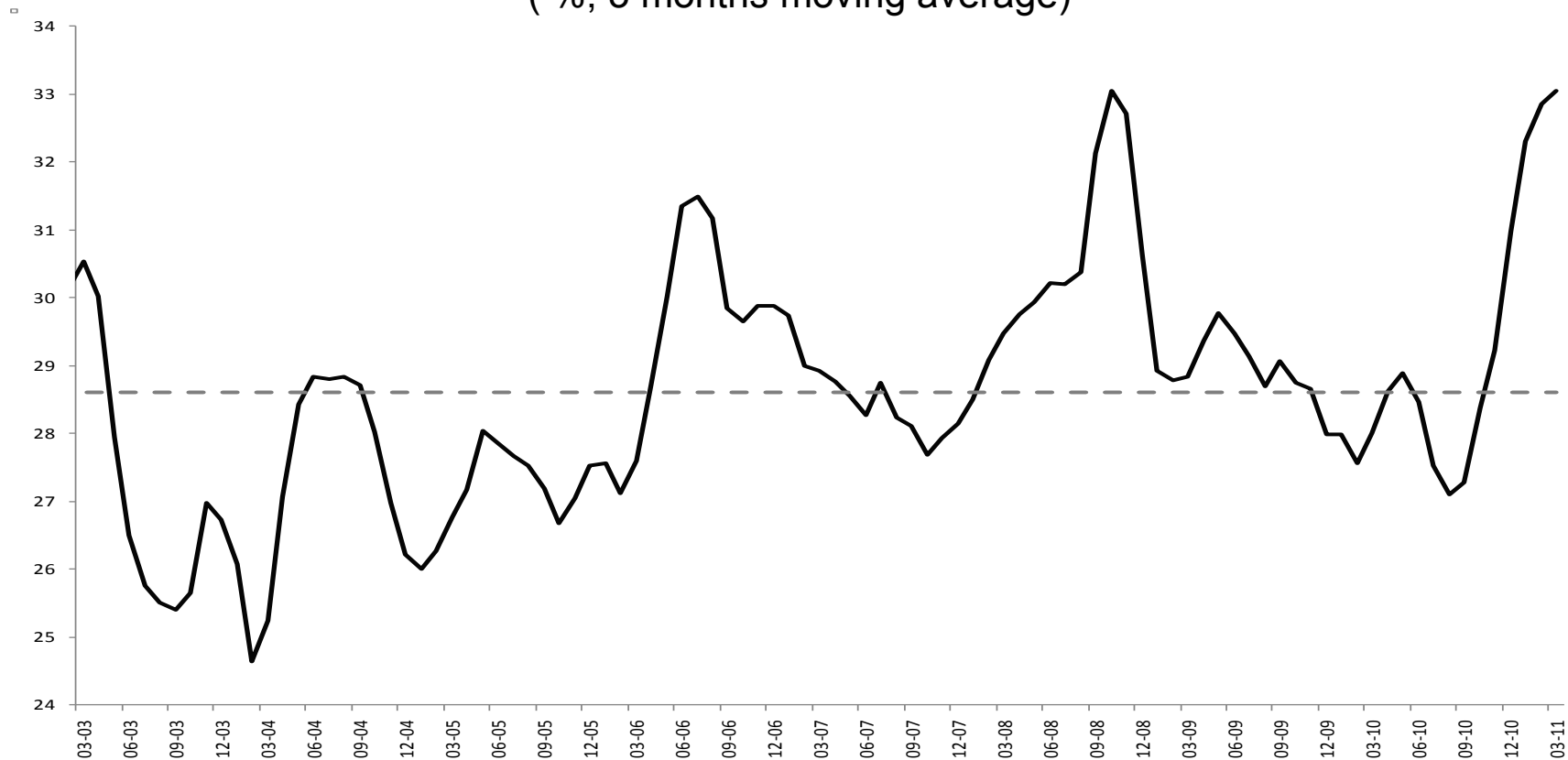




# Non-core liabilities: Turkish case

## Non-core Liabilities to M2

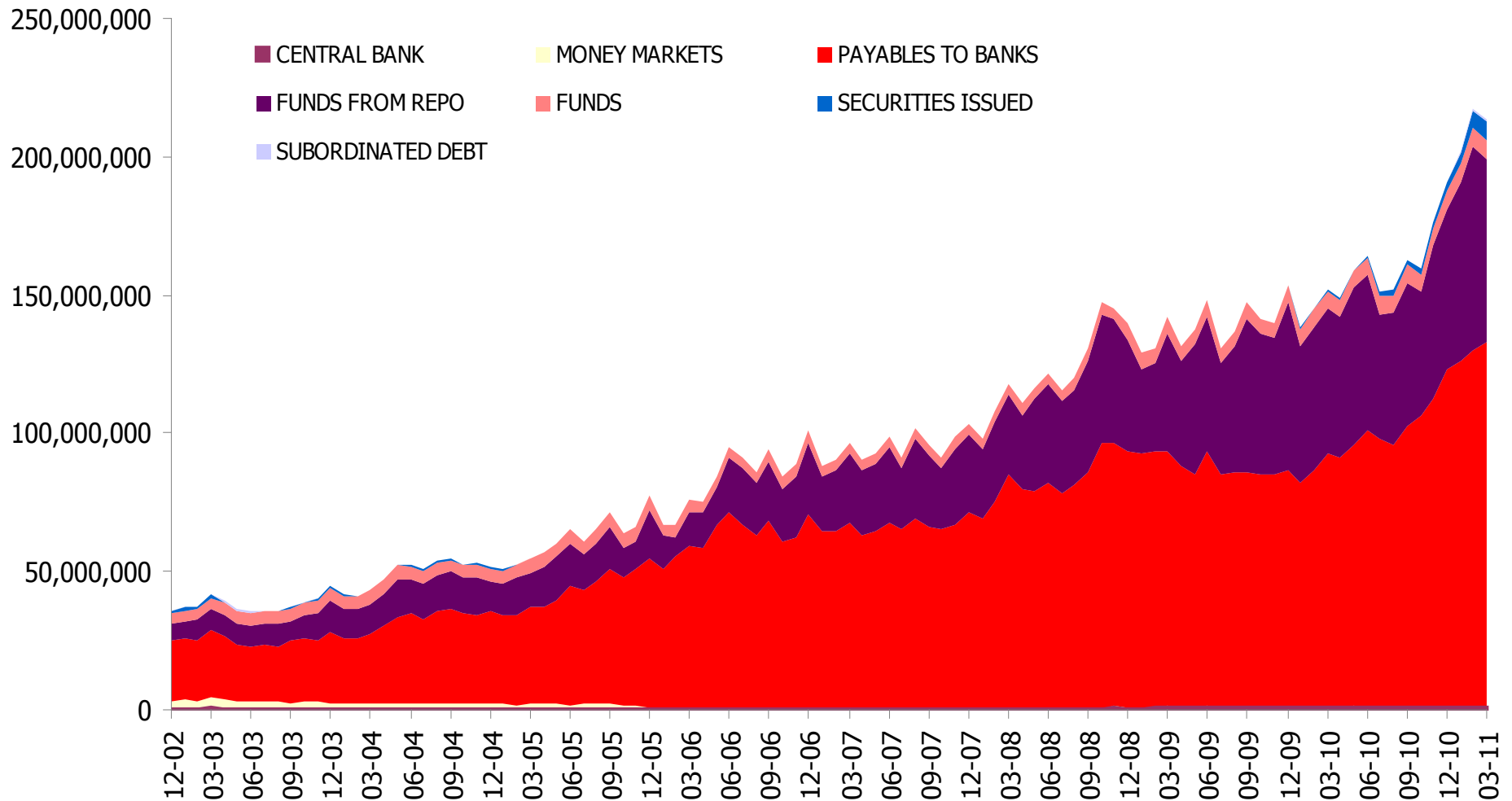
(%, 3 months moving average)



- Similar pattern with the US figure between 2006-2009
- Notable upswing in the last year!
  - A source of funding for excessive credit?

# Non-core liabilities: Turkish case

**Non-Core Liabilities (thousand TL)**



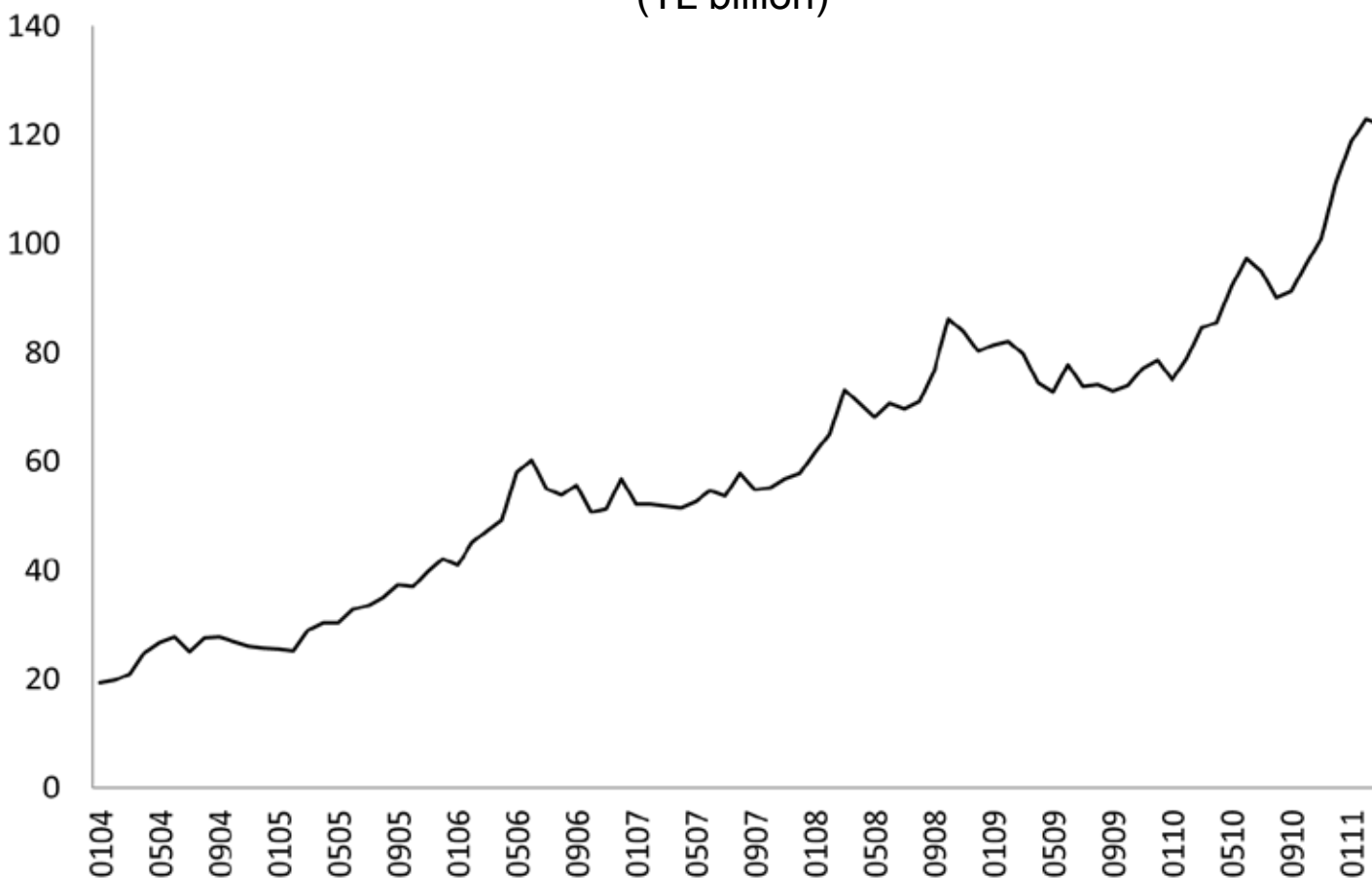
Source: CBRT

Last observations: March, 2011

# *Non-core liabilities: Turkish case*

## Payables to Foreign Banks

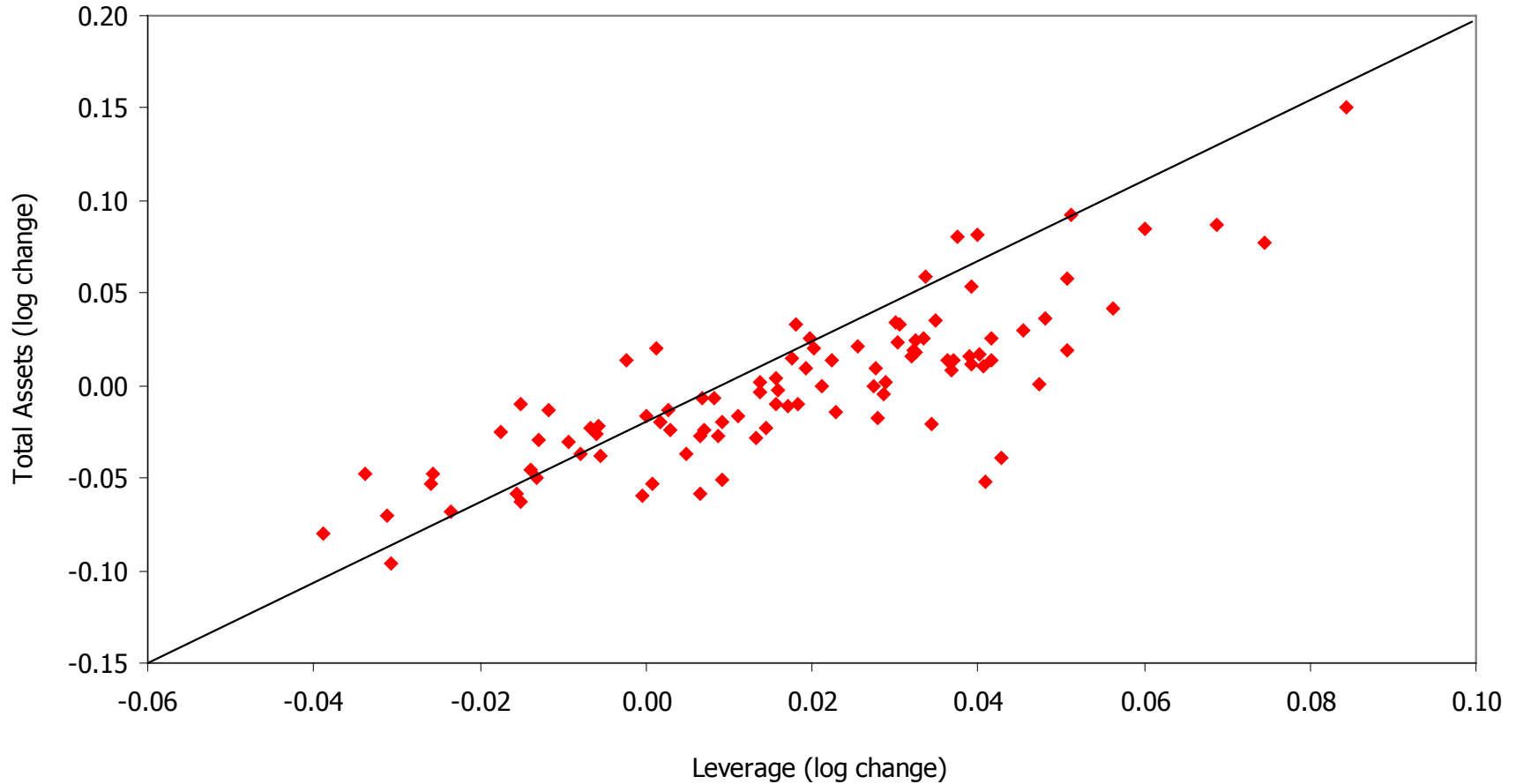
(TL billion)



- **Strong recovery after the crisis.**

# Non-core liabilities: Turkish case

**Leverage Growth and Asset Growth of Turkish  
Banks (14 banks listed in ISE)**



Source: CBRT

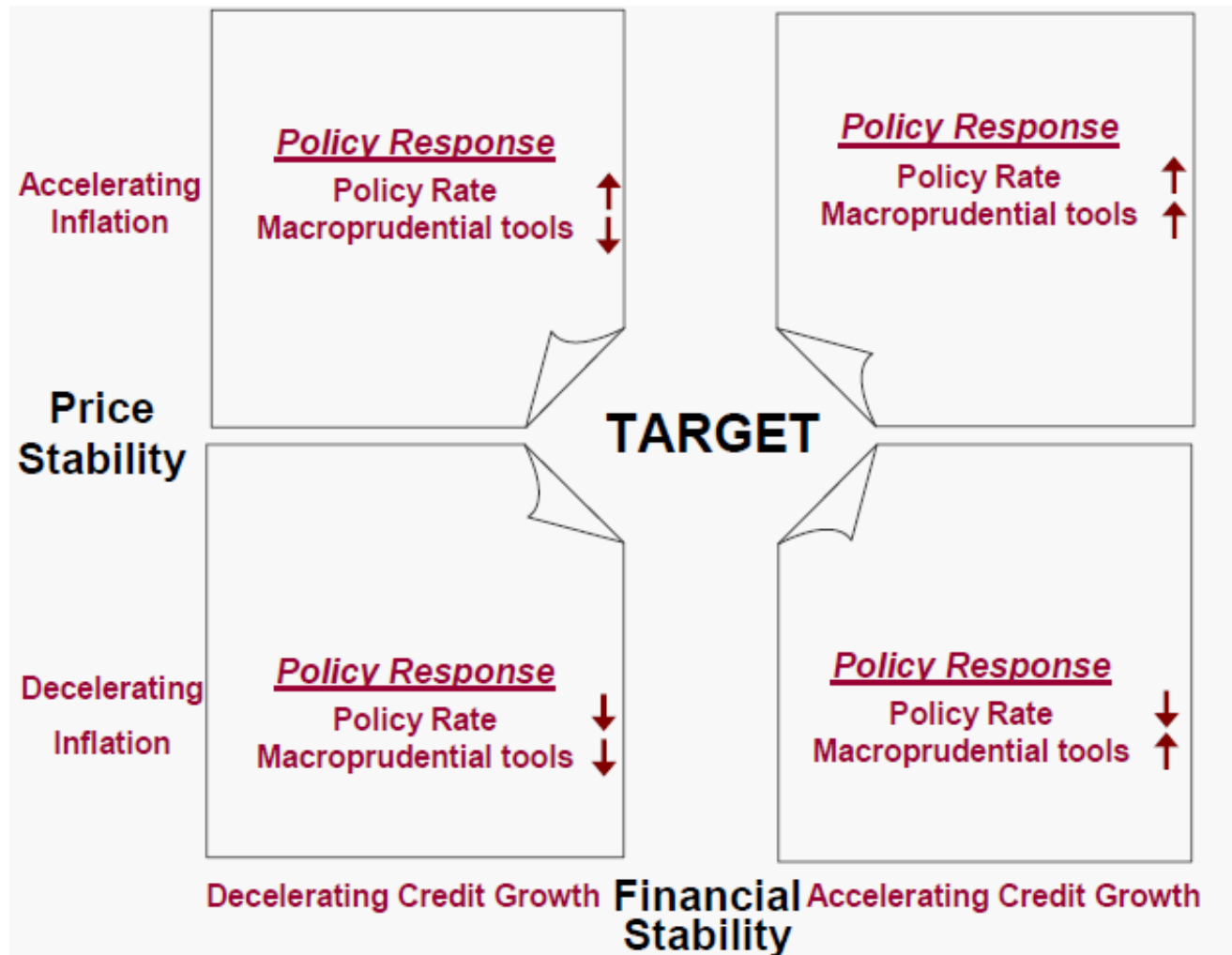
Last observations: May, 2011

# The policy challenge

- ❑ *Unbalanced composition of growth*
  - *strong domestic demand vs. sluggish external demand*
- ❑ *Strengthening but shortening capital inflows*
- ❑ *Rapid credit expansion and worsening current account deficit*
  - *raises concerns for financial stability*
- *Need for a different, yet prudent approach in monetary policy*

## III. New Policy Mix

# Two Targets, Two Instruments



## □ New Policy Mix (since November 2010)

1. A lower policy rate

2. Wider interest rate corridor

3. Reserve requirement policy

i. Higher ratios on both TL and FX deposits

ii. Unremunerated

iii. Differentiated rates across maturities

4. Tighter liquidity management



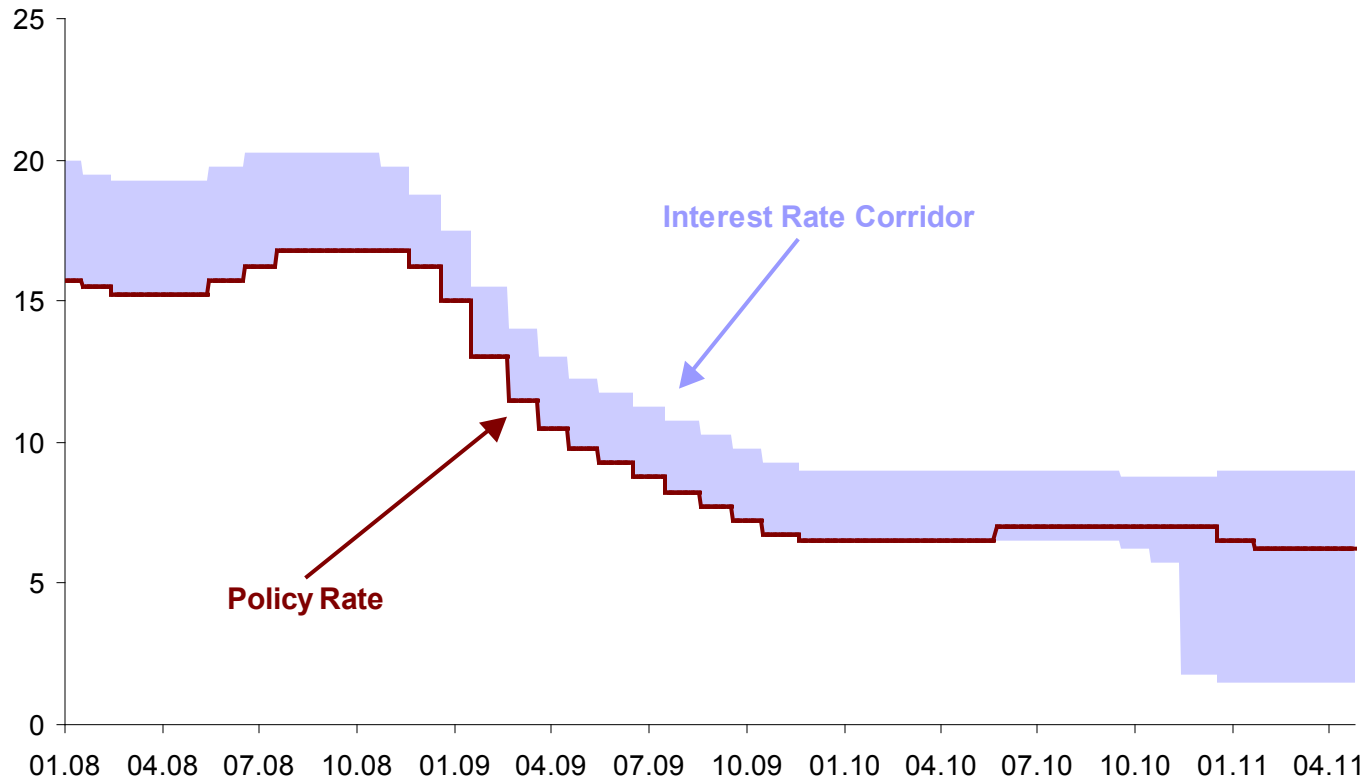
**□ Financial stability objectives**

1. Lower leverage ratios
2. Longer maturities of debt liabilities
3. Stronger FX positions
4. Better and efficient management of financial risk

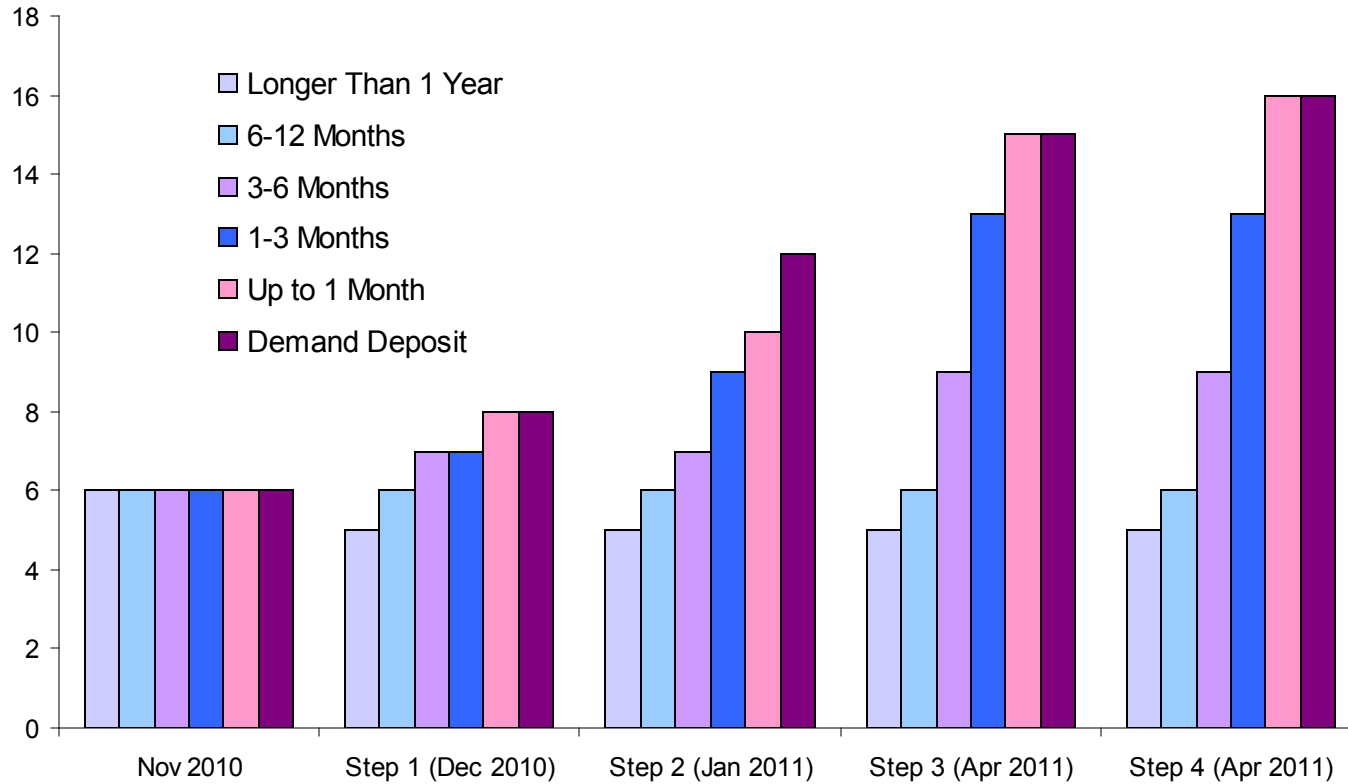
**□ Interest rate levels required for price stability and financial stability are not always consistent with each other.**

# *The lower policy rate and wider interest rate corridor of the new policy.*

## **Policy Rate and Interest Rate Corridor** (%)



## Reserve Requirement Rates (%)

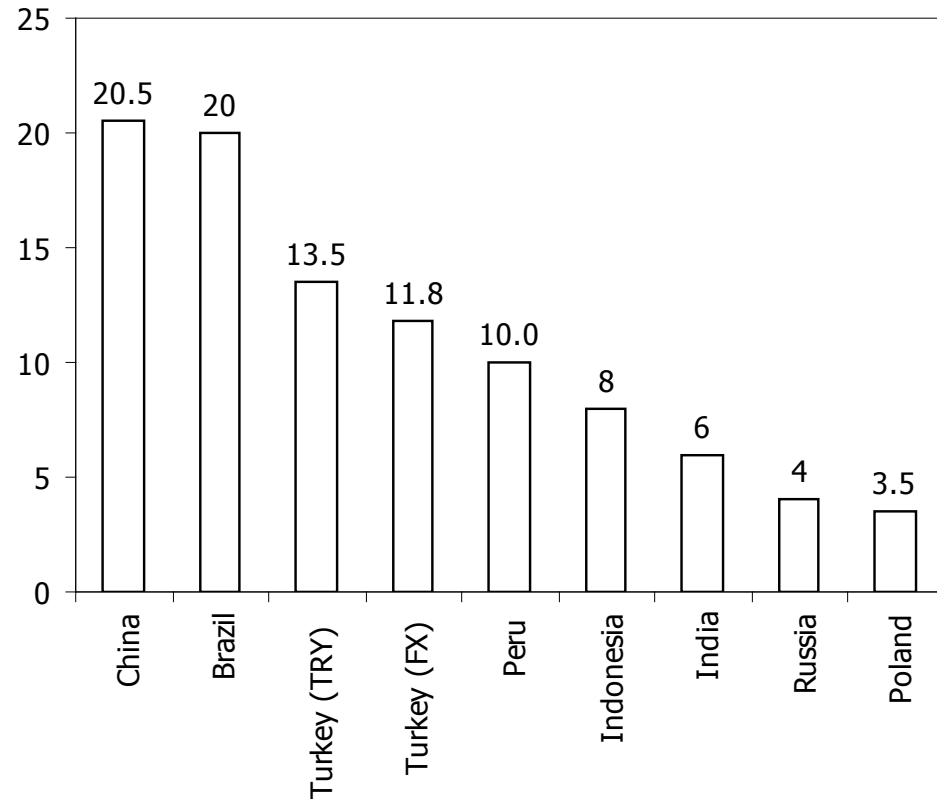


Source: CBRT

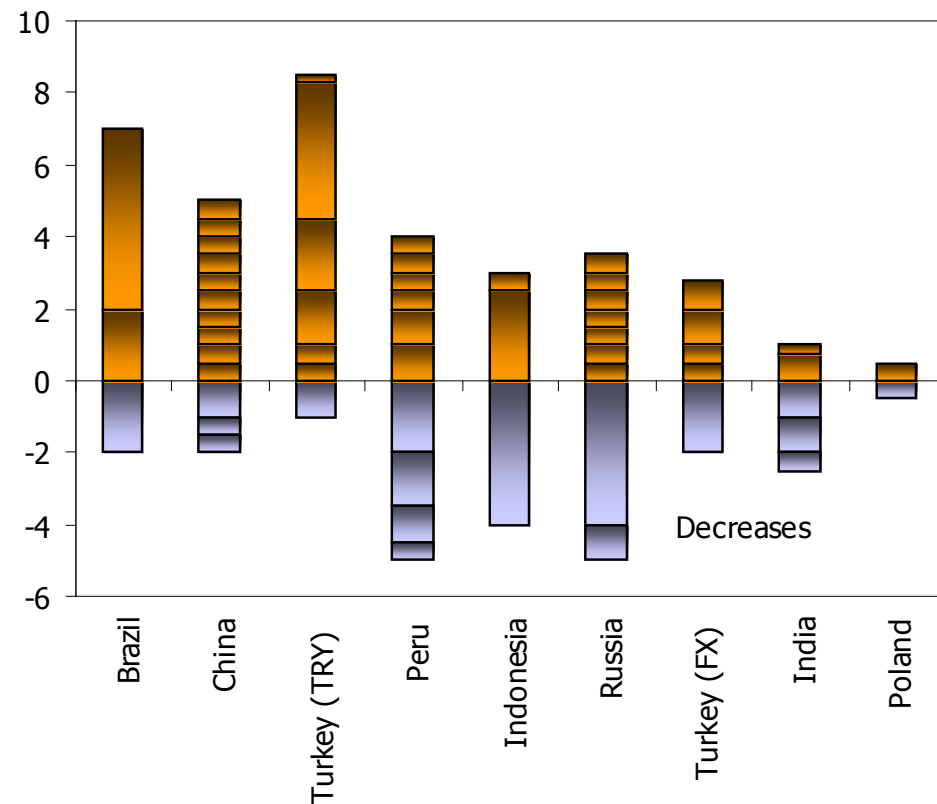
Last observations: May 2011

# Reserve requirement policy is widely used in other emerging economies.

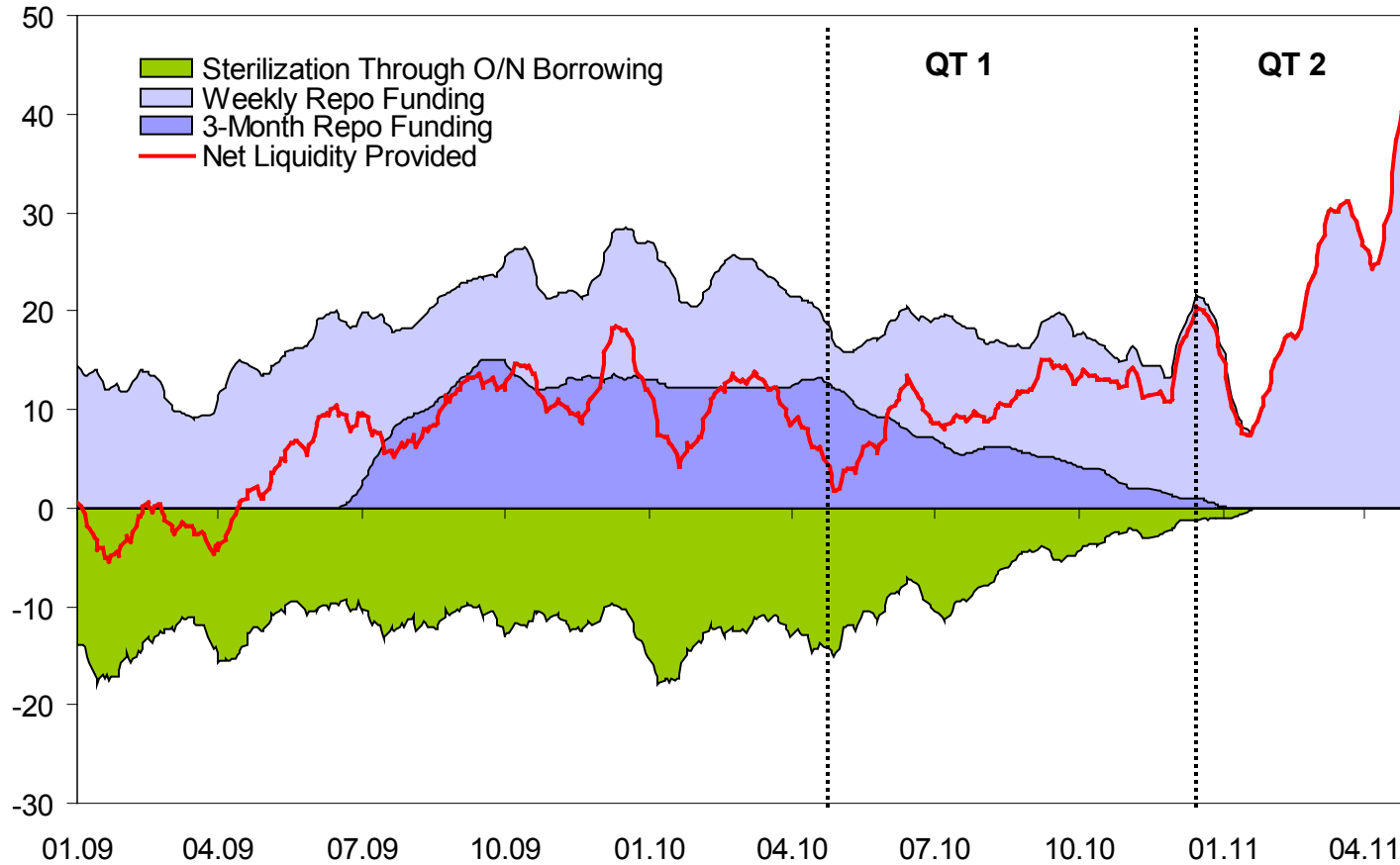
**Current Reserve Requirement Ratios (%)**



**Change Since the Start of the Crisis (percentage points)**

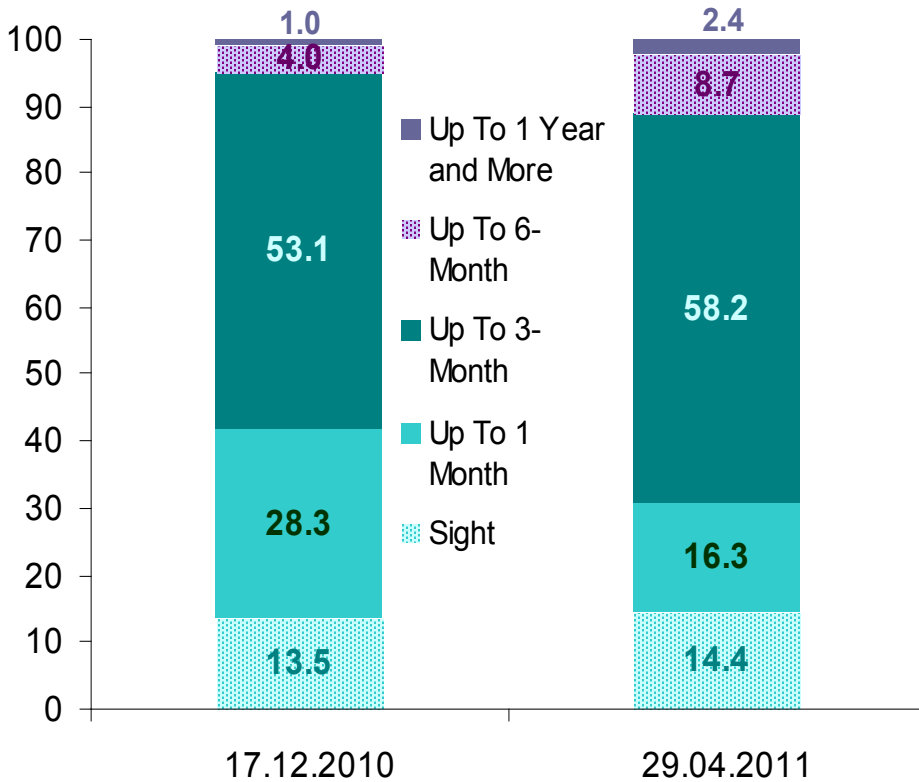


## Central Bank Liquidity (Billion TRY)

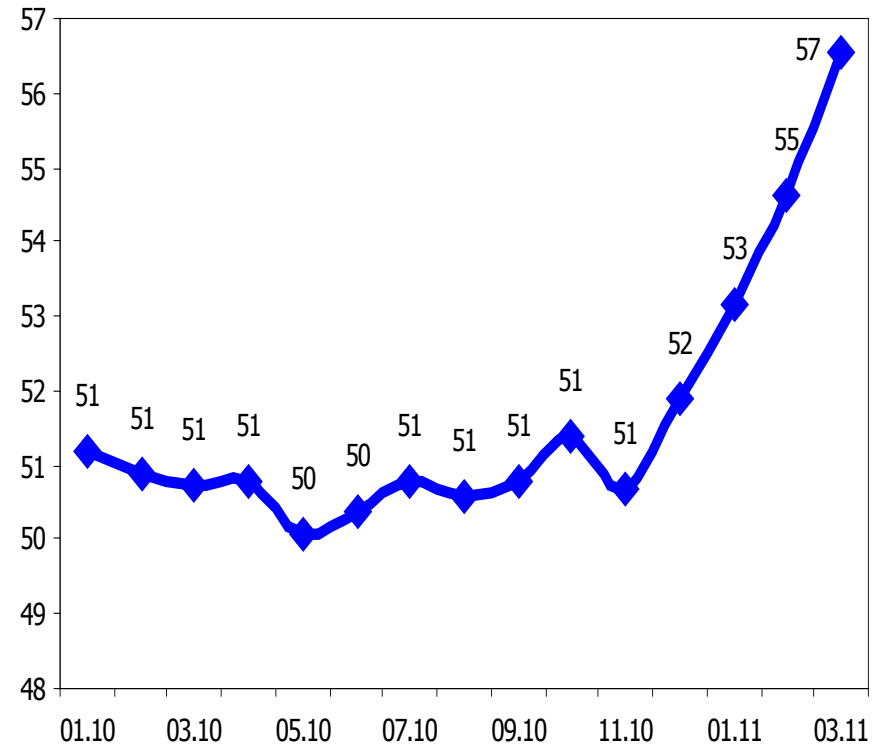


# Maturities of deposits are lengthening.

**Breakdown of TL Deposits by Maturities**  
(%)



**Average Maturity of TL Deposits**  
(Day)



# Macro prudential measures taken by other authorities in Turkey

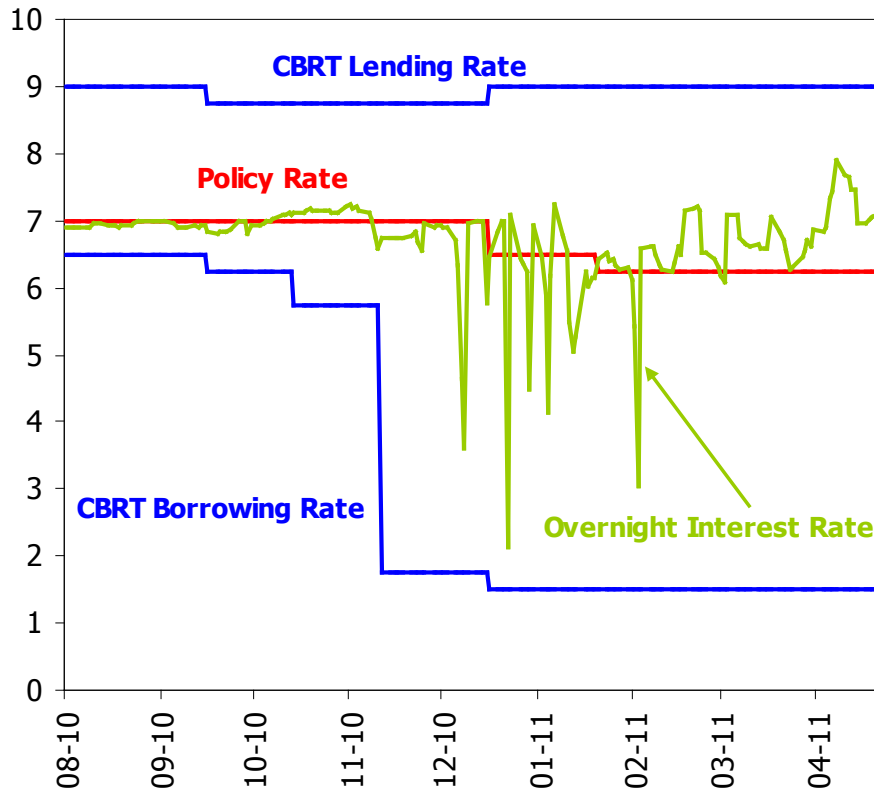
1. Fiscal discipline
2. No FX loans to households
3. Domestic currency bond market
4. Loan/value restrictions
5. Tax hikes on certain consumer loans
6. Restrictions on credit card borrowing

## IV. Outcomes of the New Policy

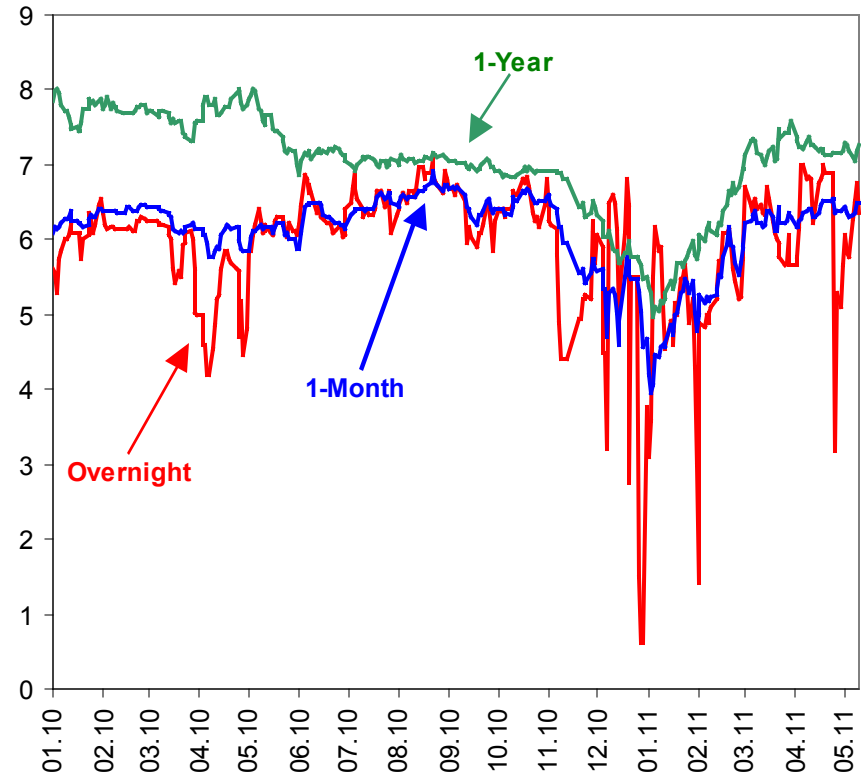


# Flexibility and volatility have been achieved in the Money Markets

### Overnight Interest Rates (%)



### Swap Rates (%)

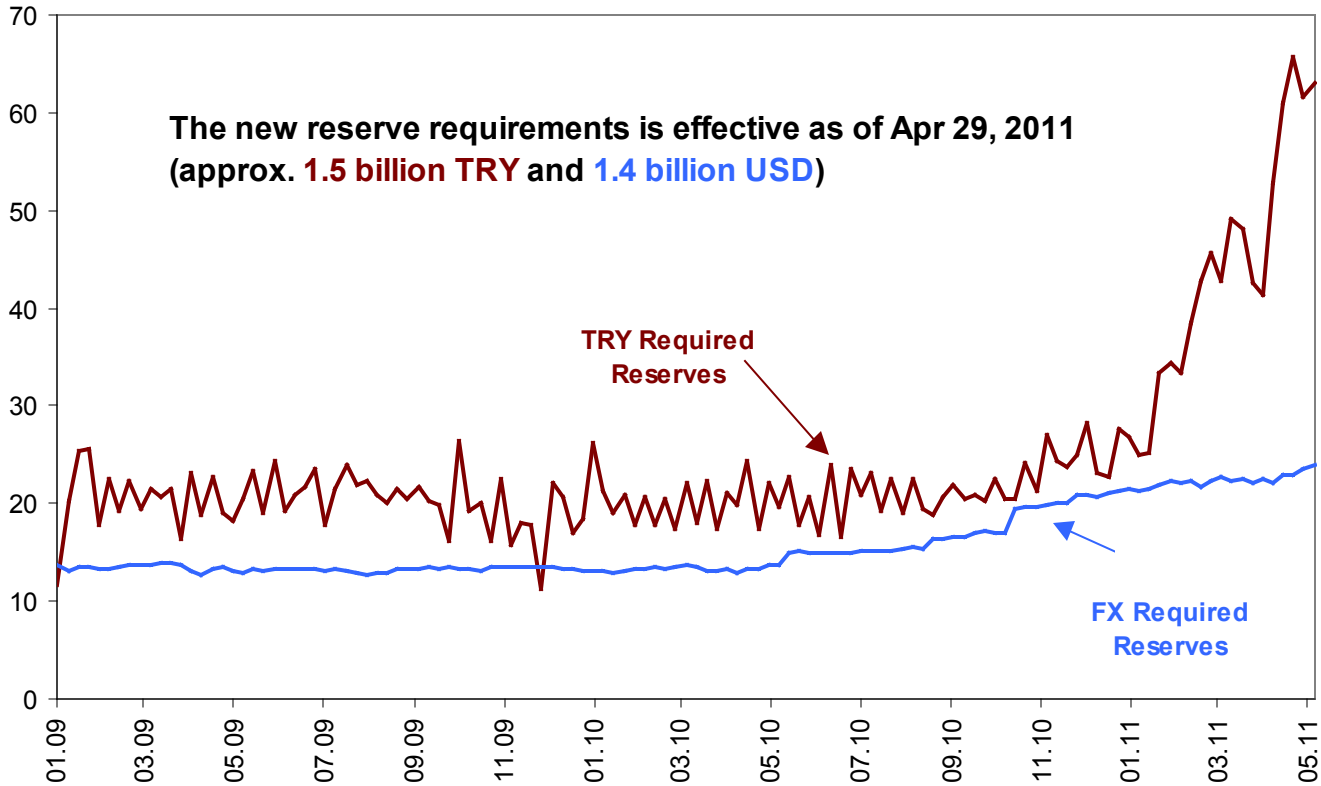


Source: CBRT

Last observations: May 2011

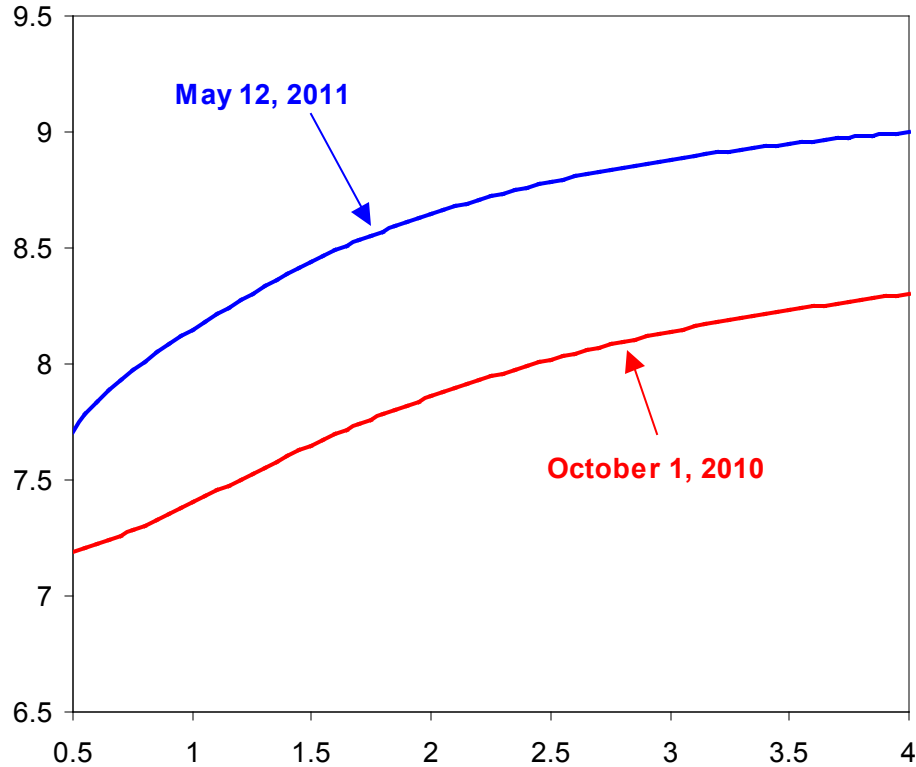
# Liquidity is tightening

## Reserve Requirements Balances (billion TRY)

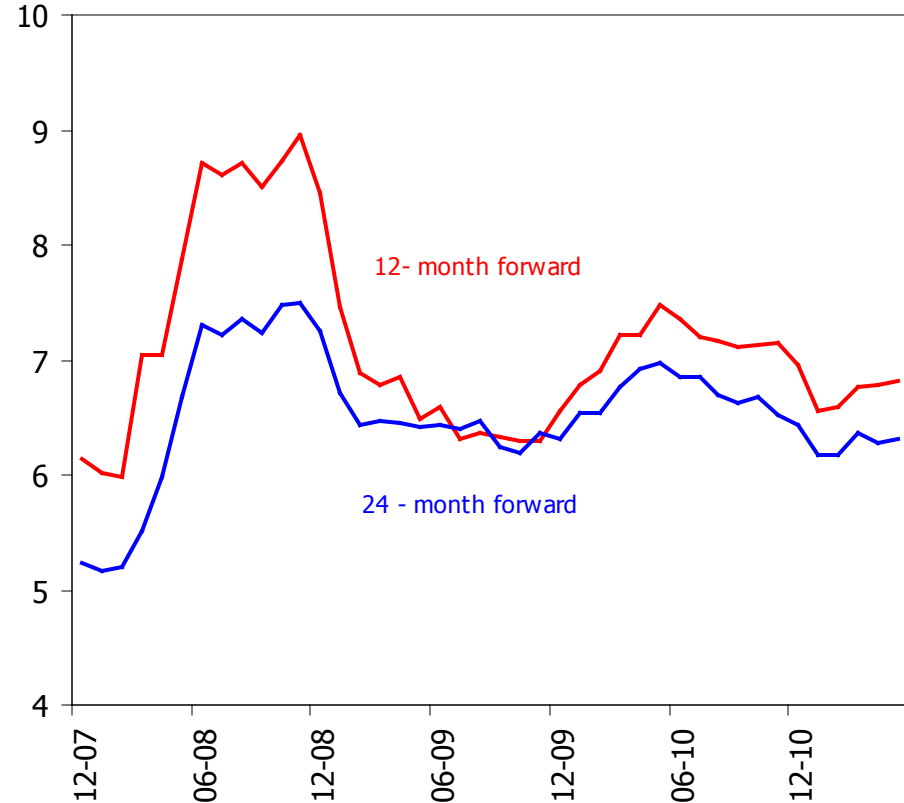


# Yield curve becomes steeper and inflation expectations well-anchored.

**Yield Curve\***  
(%)



**Inflation Expectations**  
(%.)



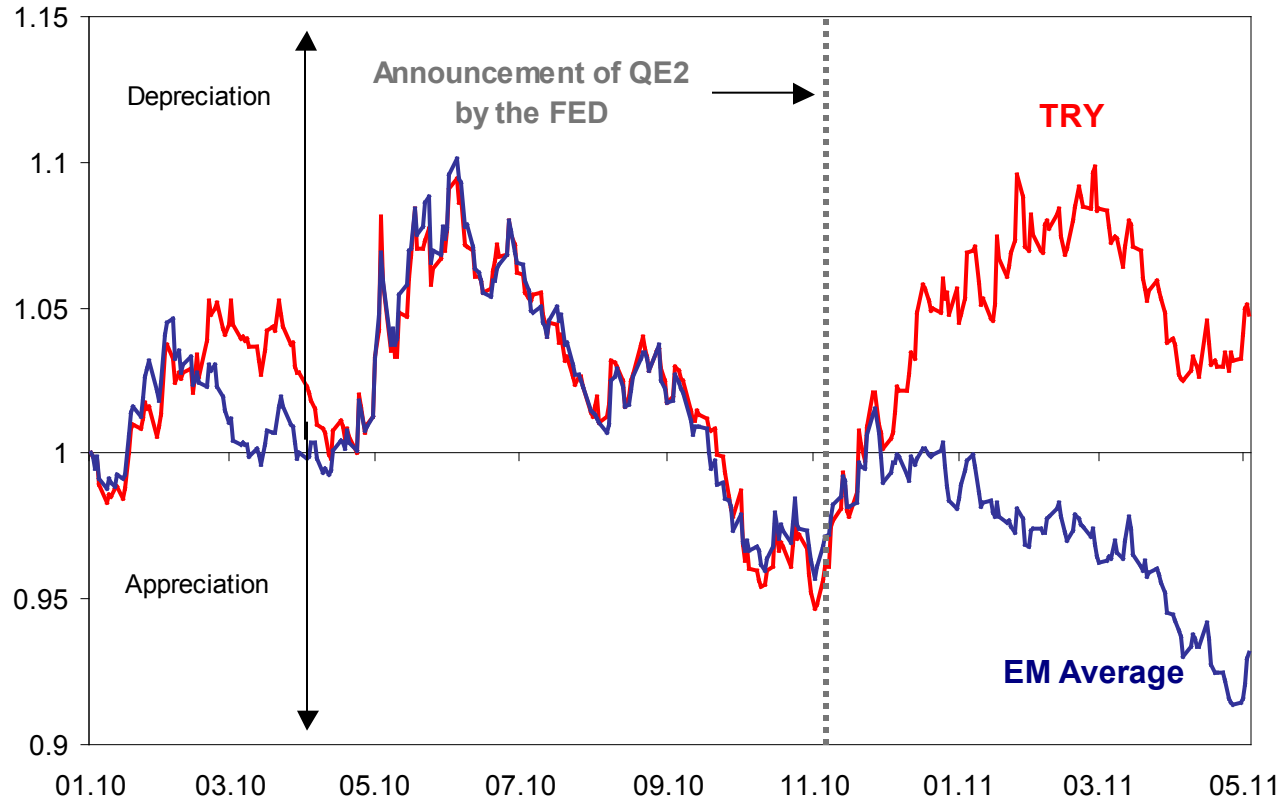
Source: CBRT

Last Observation: April 2011

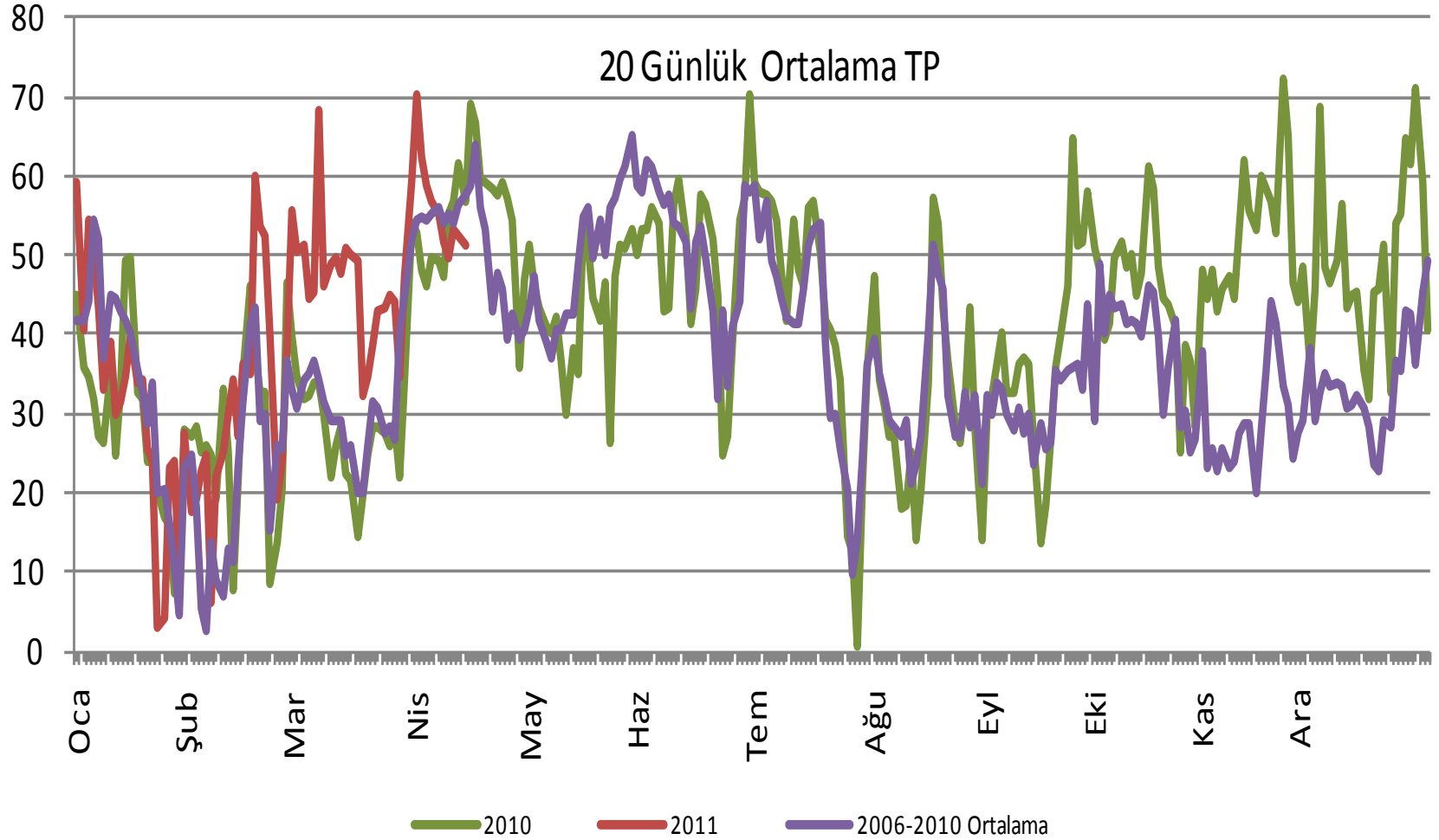
\*Calculated from the compounded returns on bonds quoted in ISE by using ENS method.

## TRY and Other EM Currencies Against USD

( 4 Jan 2010= 1)



# Daily credit growth



## **V. Discussion on Monetary and Macroprudential Policies**

- ❑ Effective policy to curb credit growth:
  1. Quantitative measures
    - i) Restrictions on lenders (e.g. Reserve requirement policy)
    - ii) Restrictions on borrowers (e.g. LTV, ITD etc.)
  2. Pricing measures: Raising lending rates through policy rate increases or levy on lending rates
- ❑ Answer depends on
  1. whether there exists a credit bubble
  2. whether there exists a monetary policy driven capital flows
  3. Mandates of central banks

- ❑ Whether target non-core liabilities?
  - i) Reserve requirements on FX deposits
  - ii) Capital controls
  - iii) Levy on non-core liabilities
- ❑ Answer depends on
  1. where the economy is in the financial cycle
  2. the importance of systemic risk spillovers



- ❑ Separation of monetary policy from liquidity management
  - Interest on reserves
  - Banks put funds into a pecking order
- ❑ Wider interest rate corridor: constructive ambiguity
- ❑ Optimal coordination between monetary and financial policy



# **Macroeconomic and Financial Stability in Turkey**

**Turalay Kenc  
Deputy Governor  
May 2011**