

## Capital Flows, Financial Stability, and Monetary Policy

S. Tolga Tiryaki Central Bank of Turkey

National Seminar on Developing a Programme for the Implementation of the 2008 SNA and Supporting Statistics in Turkey

10 September 2013 Ankara, Turkey

#### Outline

- Monetary Policy since 2001
- 2. Capital Flows and Implications for Monetary Policy
- 3. New Monetary Policy Framework
- 4. New Policy Instruments
- Evidence and Conclusion



# **Monetary Policy Since 2001**

- 2001-2006: Implicit Inflation Targeting (IT)
- 2006-2008: Full-fledged conventional IT
- > 2009-2010: Adjusting to the post crisis conditions

Late 2010-to date: Incorporating Financial Stability Objective into the Inflation Targeting Framework

(with special emphasis on capital flows)

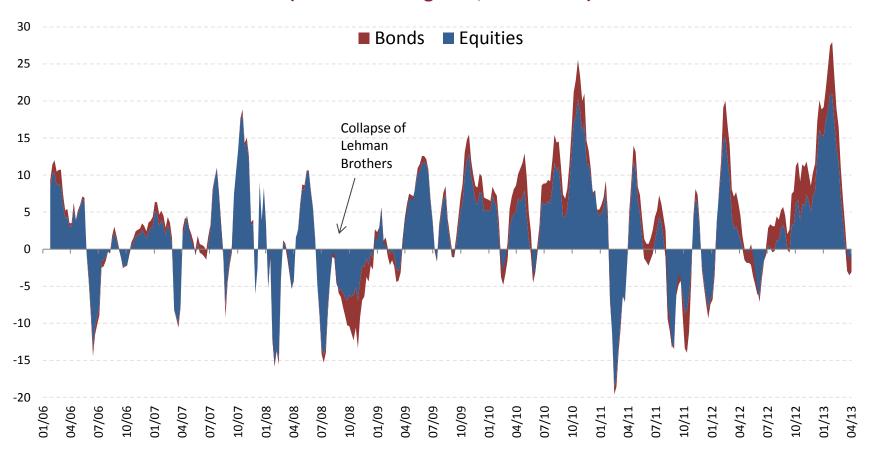


# Capital Flows and Implications for Monetary Policy



# **Portfolio Flows to Emerging Economies**

# Equity and Bond Flows to Emerging Market Economies (4-Week Moving Sum, Billion USD)



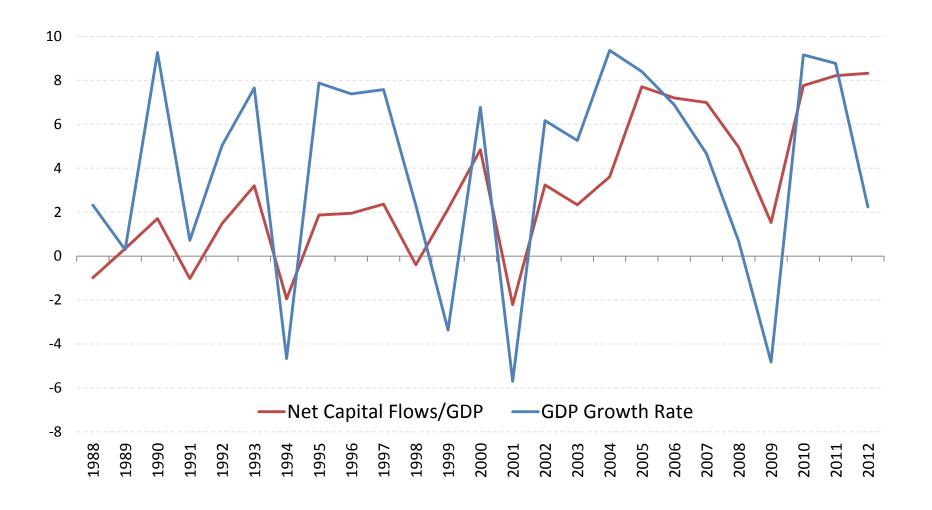
Source: Emerging Portfolio Fund Research (EPFR)



# Capital flows: challenges

- Capital flows may have important benefits, but they pose big challenges for macroeconomic policy as well:
- Sudden reversals (stops) can have very large adverse effects on real and/or financial sector.
- Procyclical flows amplify macro-financial fluctuations, rather than dampening them.

# **Capital Flows and GDP Growth in Turkey**



Source: CBRT



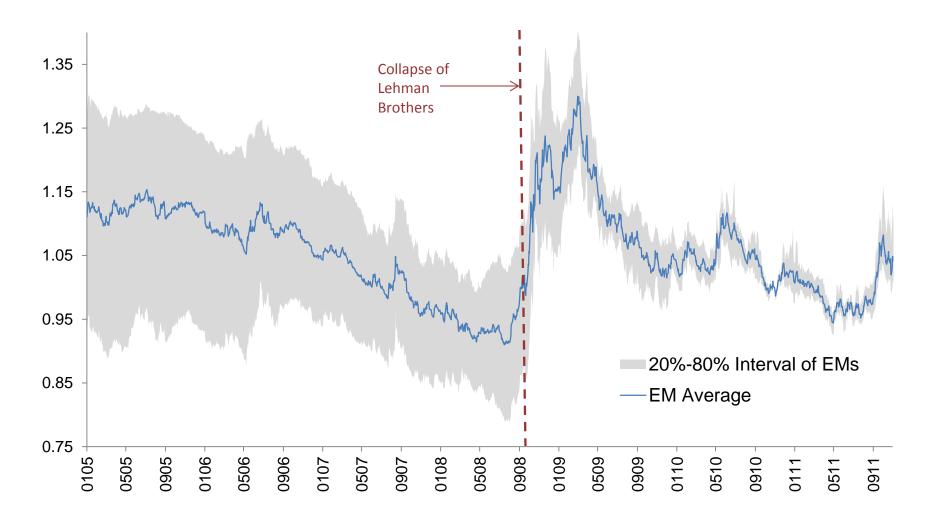
# Capital flows: why bother now?

Historically the main source of volatility in Turkey has been cross border capital flows, why bother now?

- Size and volatility of capital flows have increased even more during the post-crisis period
- More importantly, it is mainly driven by global factors.
  - Less related to domestic fundemantals
  - Inefficient and distortionary



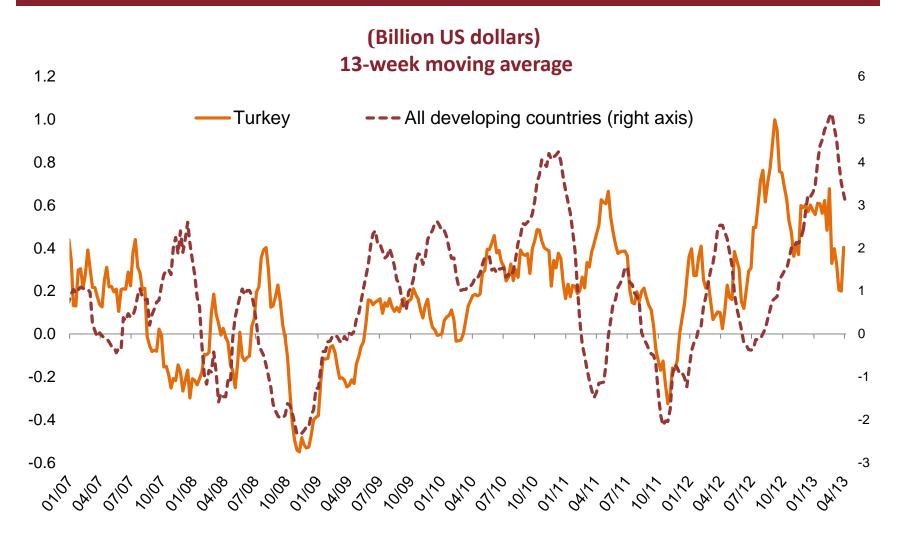
## **Emerging Market Currencies Against USD\***



Emerging Economies: Brazil, Chile, Colombia, Czech Republic, Hungary, Indonesia, Malaysia, Mexico, Philippines, Poland, Romania, South Africa, Korea.



# Portfolio Flows: Turkey vs. Developing Countries



Source: EPFR, CBRT.



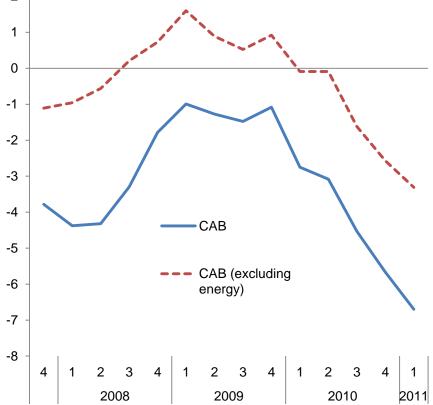
# Capital Flows and Macro-Financial Risks: Turkish economy as of late 2010



# Turkish Economy as of late 2010: Sharp Increase in the Current Account Deficit, Financed with Short-term Inflows

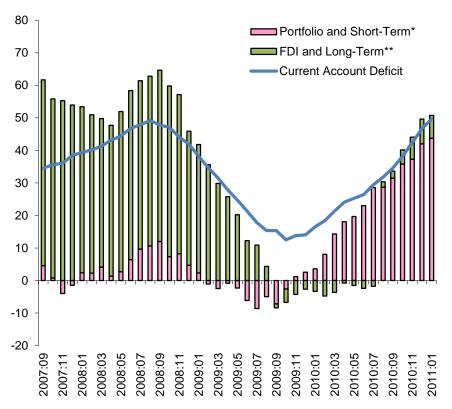
#### **Current Account Balance**

(Seasonally Adjusted, Quarterly Average, Billion USD)



Main Sources of External Financing\*

(12-months Cumulative, Billion USD)



<sup>\*</sup>Short-term capital movements are sum of banking and real sectors' short term net credit and deposits in banks. Long-term capital movements are sum of banking and real sectors' long term net credit and bonds issued by banks and the Treasury.

Source: CBRT.

Source: TURKSTAT, CBRT.

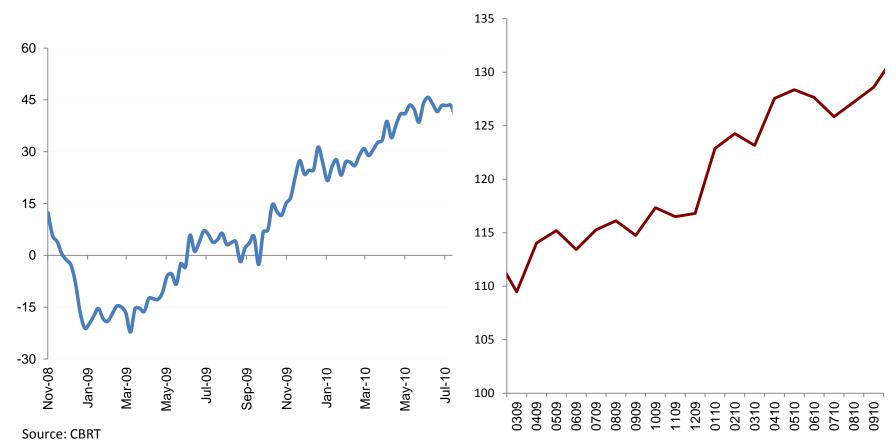


# Turkish Economy as of late-2010: Rapid Credit Growth, and Sharp Appreciation of Domestic Currency

#### Total Loan Growth Rates (13 Weeks Moving Average

(13 Weeks Moving Average, Annualized, FX Adjusted, Percent)

#### Real Exchange Rate (2003=100)





# Searching for a new policy framework

#### **MAIN GOAL:**

Design a new framework to

- correct the cyclical part of the current account deficit, by reducing overborrowing and overvaluation,
- alleviate the impact of excessive volatility in capital flows on the domestic economy,
- reduce the sensitivity of credit and exchange rate cycles to capital flows,
- without jeopordazing price stability objective.

# Can we do it with conventional Inflation Targeting?

- When global liquidity shocks dominate, using single instrument under IT may exacerbate the trade-offs
- > For example, during capital inflows there are two options:
  - i个 => further appreciation => wider CA deficit, sudden stop risks increase
  - $i \downarrow =>$  overheating => higher inflation
- > Multiple objectives, multiple instruments are needed.



# **The New Policy Framework**



# **Policy Framework**

	Old Approach	New Approach
Objectives	Price Stability	Price Stability Financial Stability
Policy Tools	Policy Rate	Interest Rate Corridor Reserve Options Policy Rate, etc



### Financial Stability: How can Monetary Policy Contribute?

- Monetary policy can contribute to financial stability by reducing the probability of a sudden stop,
- and by dampening the amplification mechanisms triggered by capital flows.
  - smoothing credit and exchange rate cycles



#### **Transmission Mechanism**

#### REFERENCE **INSTRUMENTS OBJECTIVES INDICATORS** Reserve Macro Requirement prudential Reserve Policy Price **Options Stability** Credit Growth Interest Rate **Policy Rate** Exchange **Policy** Rate **Financial** Interest Rate **Stability** Corridor Liquidity **Policy Funding Strategy**

### The link between credit, exchange rate, and final objectives

#### Smoothing credit and exchange rate cycles

- supports financial stability by dampening the leverage cycles and lowering the probability of a sudden stop,
- helps price stability through lower inflation volatility, given the high exchange rate pass-through in Turkey,
- and implies a more balanced growth path.



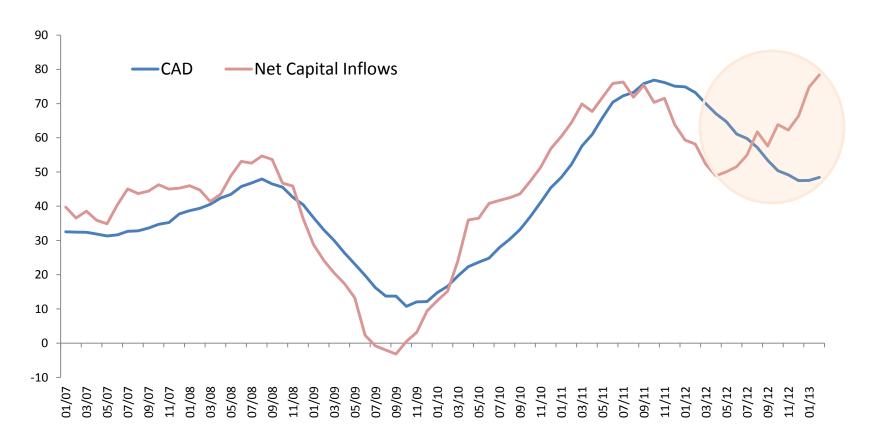
Have new instruments weakened the impact of capital flows to domestic macroeconomic variables?



# **Current Account and Capital Flows**

#### **Current Account Deficit and Net Capital Inflows**

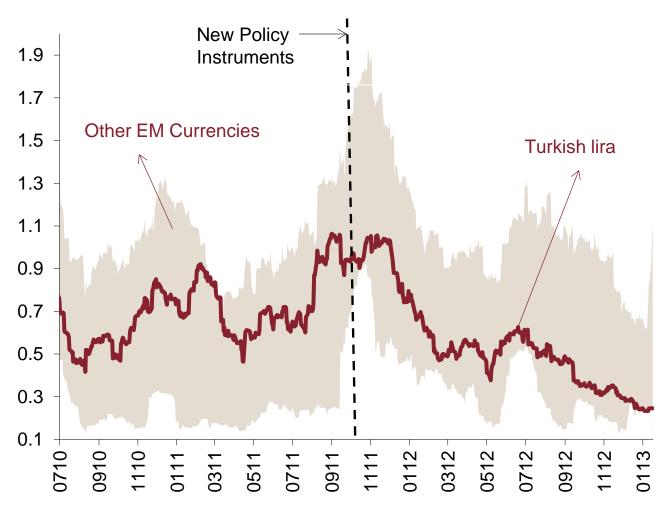
(12 Month Cumulative, Billion USD)



Source: CBRT. Last Observation: February 2013.



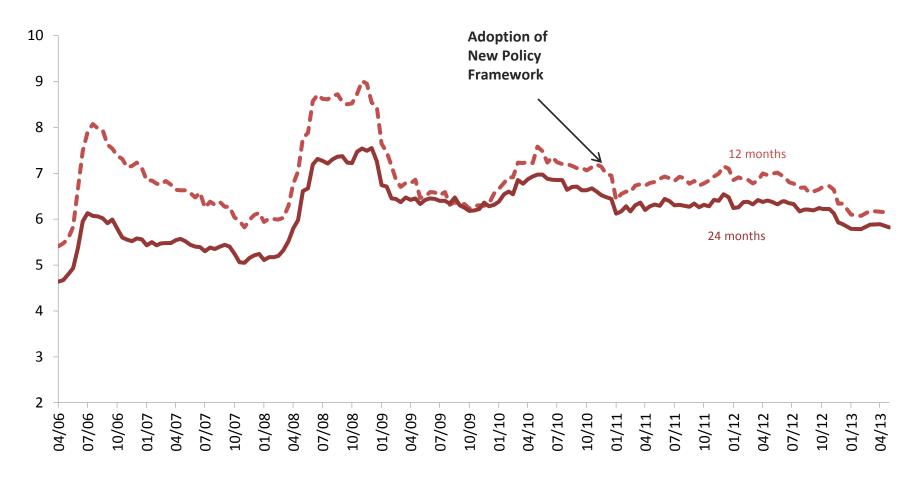
# Volatility of the Turkish lira and other EM currencies against USD (30 days moving average)



<sup>\*</sup> Countries with current account deficits are Brazil, Chile, Columbia, Czech Republic, Hungary, Indonesia, Mexico, Poland, Romania, South Africa, and Turkey.



# **Inflation Expectations**







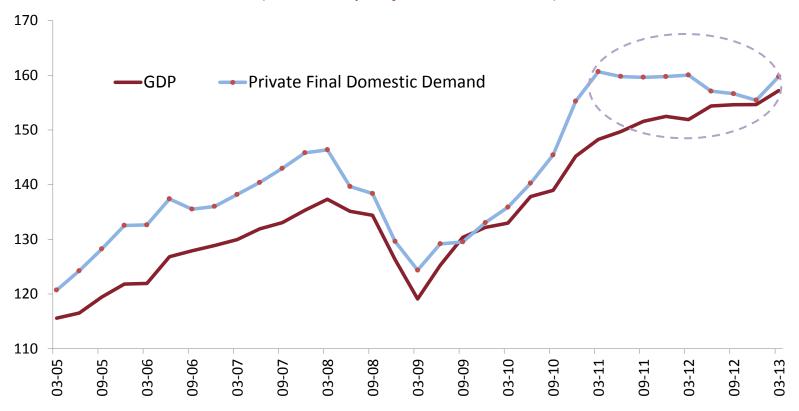
# Macroeconomic Outcomes of the New Monetary Policy Framework



## **Economic Activity**

#### **Gross Domestic Product and Private Final Domestic Demand**

(Seasonally Adjusted, 2003=100)



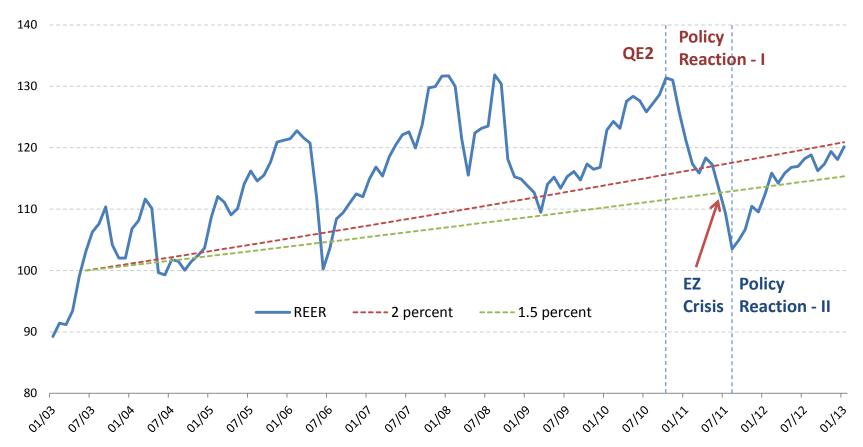
Source: TURKSTAT, CBRT. Last Observation: 2013Q1



# Real Exchange Rate

## CPI Based REER

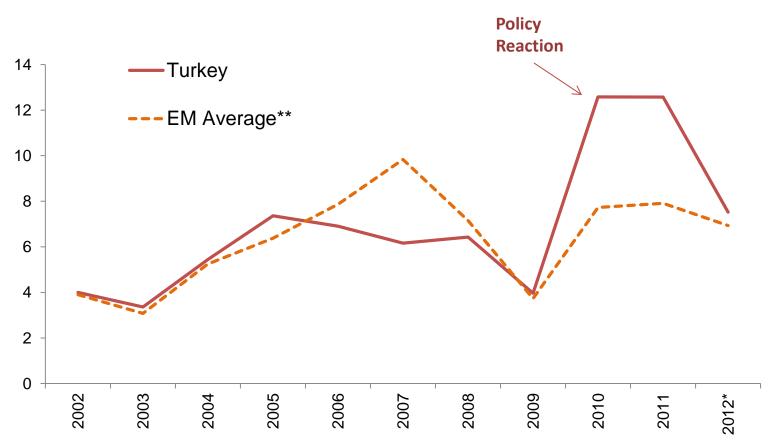
(Base year: 2003)



Source: CBRT.



### **Change in Credit Stock /GDP**



<sup>\*</sup> Forecast for 2012.

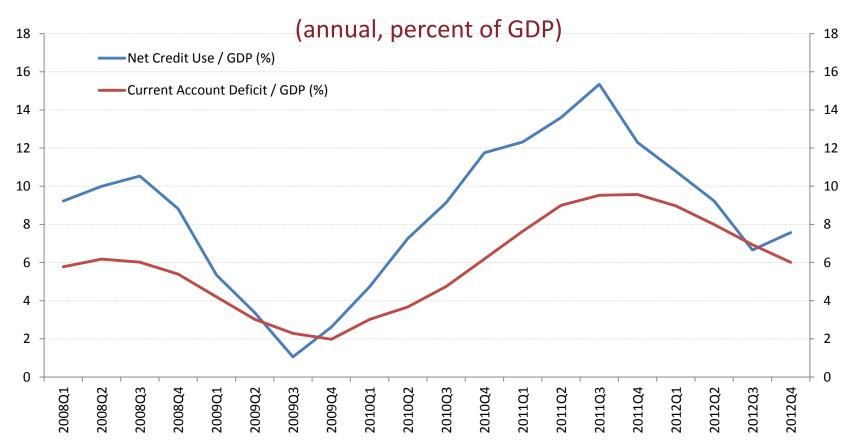
<sup>\*\*</sup> Emerging market countries included in the average are: Argentina, Bolivia, Brazil, Chile, China, Colombia, India, Indonesia, Malaysia, Mexico, Paraguay, Peru, Philippines, Poland, Russian Federation, Slovenia, South Africa, Thailand, Turkey and Uruguay.

Source: World Bank...



### **Credit and Current Account**

#### **Net Credit Use and Current Account Deficit**



Source: CBRT.

Net credit use is annual change in total credit stock.

Current account is in annual terms.



#### Conclusion

- ➤ Heightened volatility in cross-border flows have prompted Central Bank of Turkey (CBT) to change its policy framework by incorporating financial stability into the inflation targeting regime.
- The new policy set-up and the tools developed by the CBT have eased the trade-offs posed by cross border capital flows.
- ➤ New policy framework has been effective in reducing macro financial risks in Turkey without hampering inflation objective.



## Capital Flows, Financial Stability, and Monetary Policy

S. Tolga Tiryaki Central Bank of Turkey

National Seminar on Developing a Programme for the Implementation of the 2008 SNA and Supporting Statistics in Turkey

10 September 2013 Ankara, Turkey