CENTRAL BANK OF THE REPUBLIC OF TURKEY

The Challenges of Balancing Hot Money Inflows vs Conducting a Prudent Monetary Policy

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5 May 2011



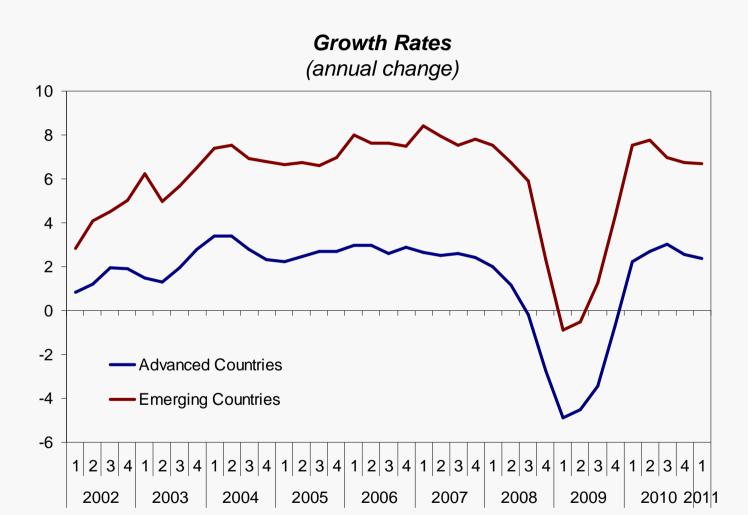
Presentation Outline

- I. Monetary Policy in Advanced Economies vs
 Emerging Economies
- II. The Turkish Economy
- III. Monetary Policy Response: Turkey's Experience
- IV. Financial Stability Outcomes So Far



I. Monetary Policy in Advanced Economies vs Emerging Economies

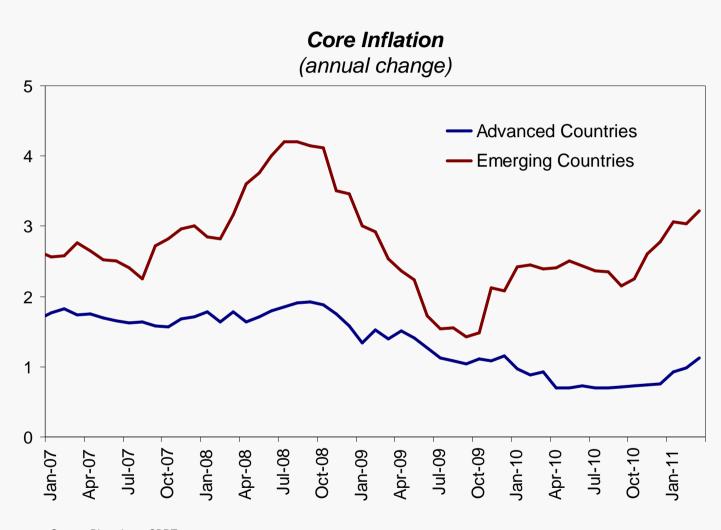
Growth Differentials



Source: Bloomberg, CBRT



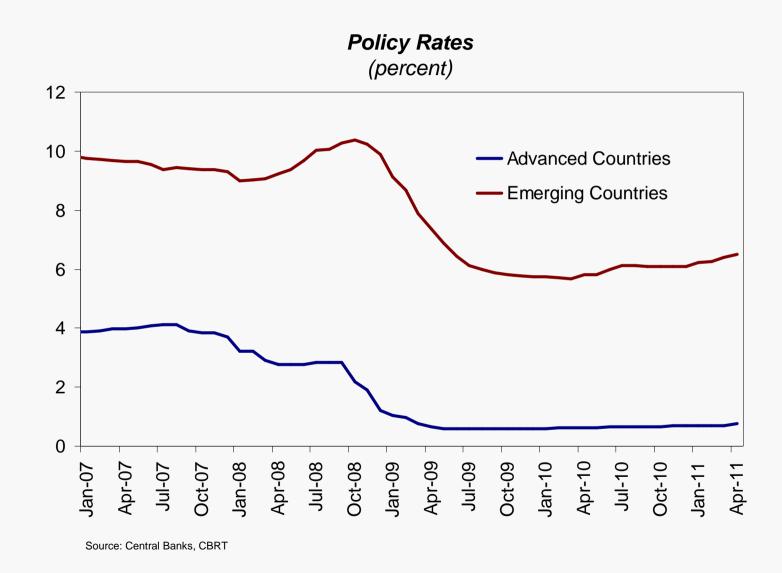
Inflation Differentials







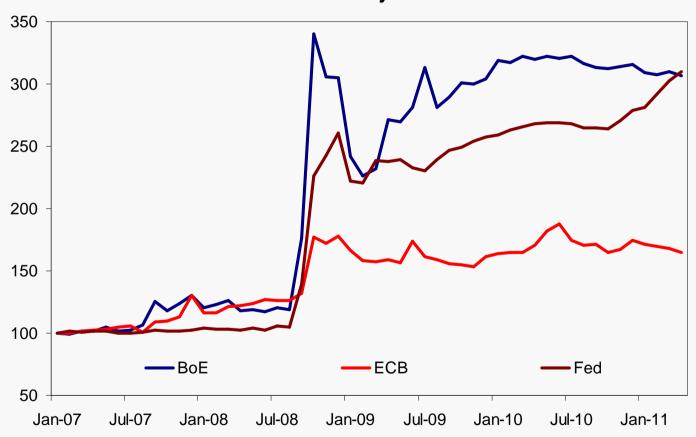
Interest Rate Differentials





Quantitative Easing

Balance Sheets of Major Central Banks



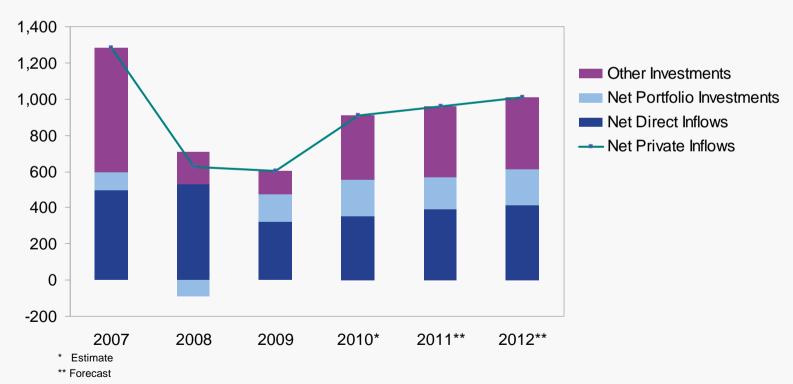
* Index: March 2007=100 Source: Central Banks



Result: Surge in Capital Flows

After the crisis both the magnitude and the composition of capital flows have changed: magnitude due to exceptionally looose monetary policies and QE in advanced economies; composition – due to risk averseness

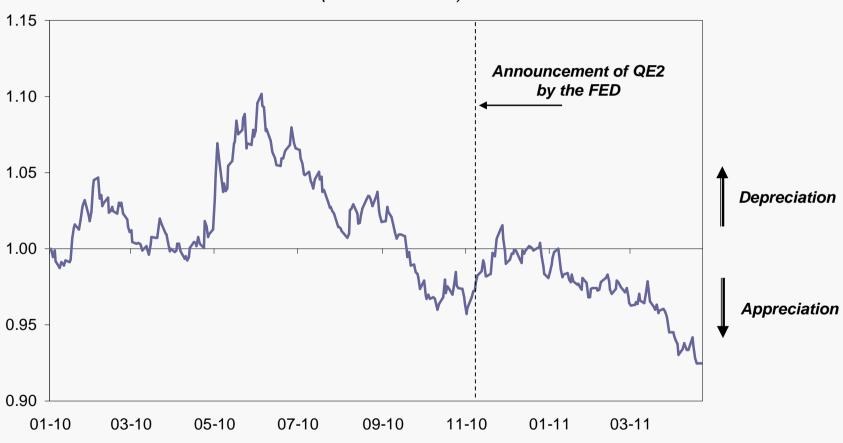
Net Capital Flow to Emerging Countries





Result: Appreciation Pressure





^{*} Average of emerging market currencies including Brazil, Chile, Colombia, Czech Republic, Indonesia, Hungary, Mexico, Poland, Republic of Korea and South Africa.

Source: Bloomberg, CBRT

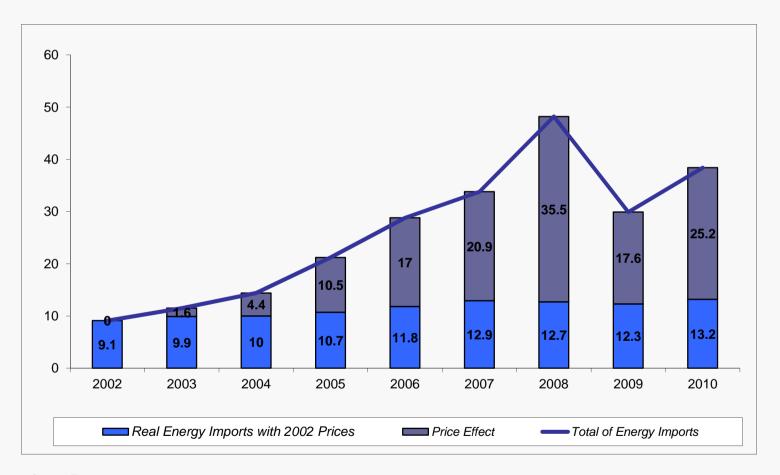


II. The Turkish Economy



Turkey: (1) Commodity Importer

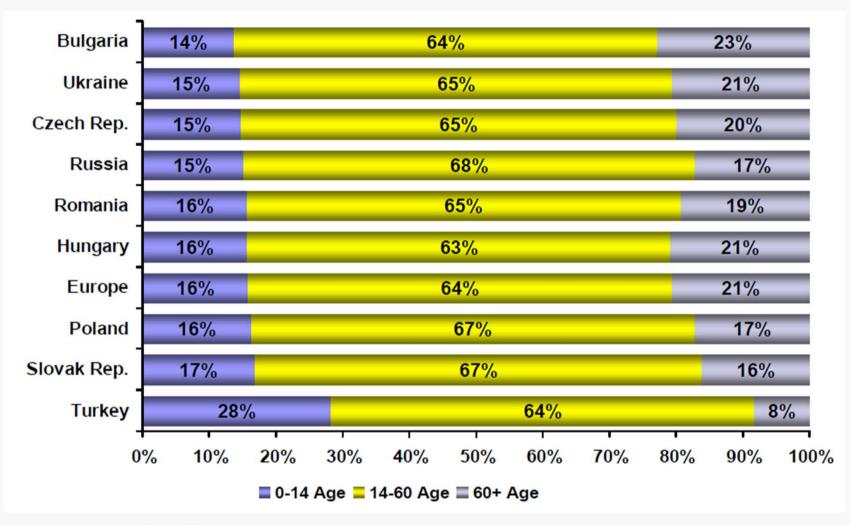
Impact of Energy Prices



Source: Treasury



Turkey: (2) Young Population



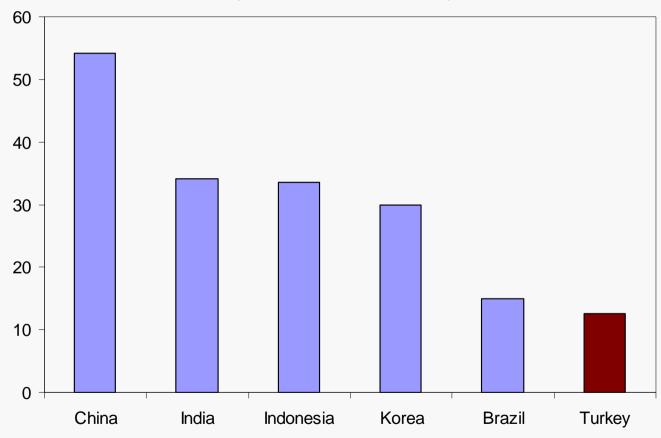
Source: UN



Turkey: (3) Low Savings Rate

Gross national savings

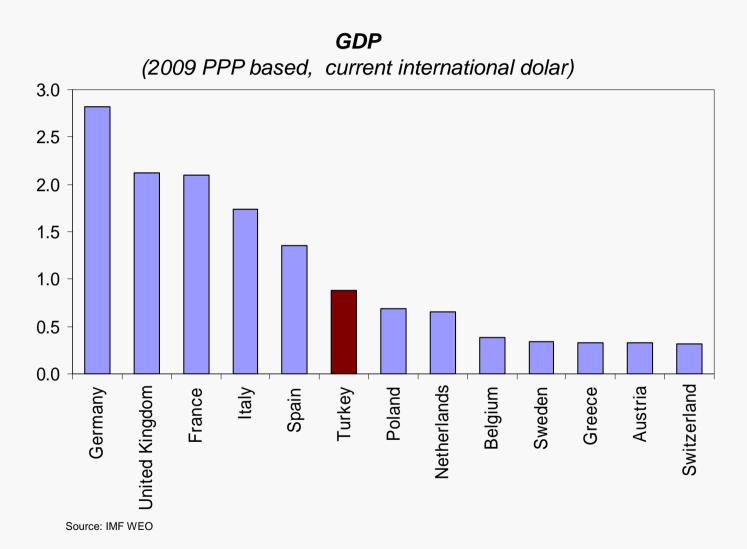
(Percent of GDP, 2009)



Source: IMF WEO



Turkey: (4) Convergence to the EU

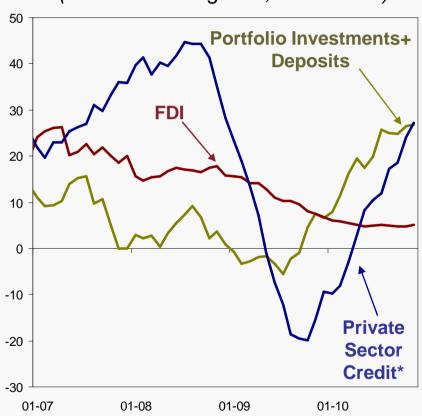




Challenges: (1) Surge in Capital Flows

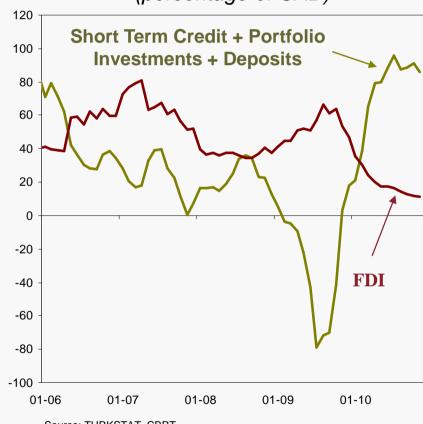
Composition of Capital Flows

(12-month rolling sum, billion USD)



* After controlling for the effect of change in Decree No. 32 Source: TURKSTAT, CBRT

Finance of Current Account Deficit (percentage of CAD)

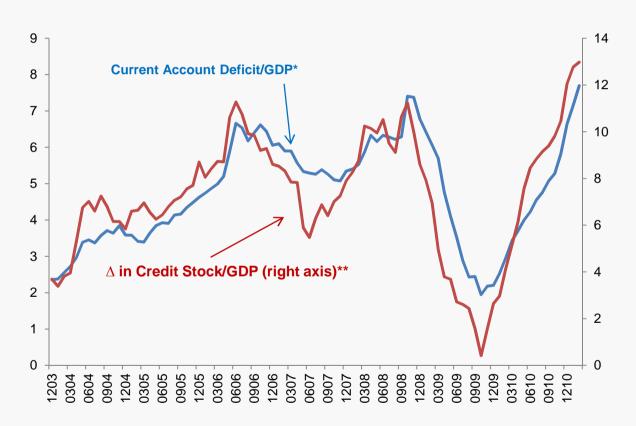


Source: TURKSTAT, CBRT



Challenges: (2) Rapid Credit Growth

Credit Use and Current Account Deficit



^{*12-}months cumulative current account deficit / GDP

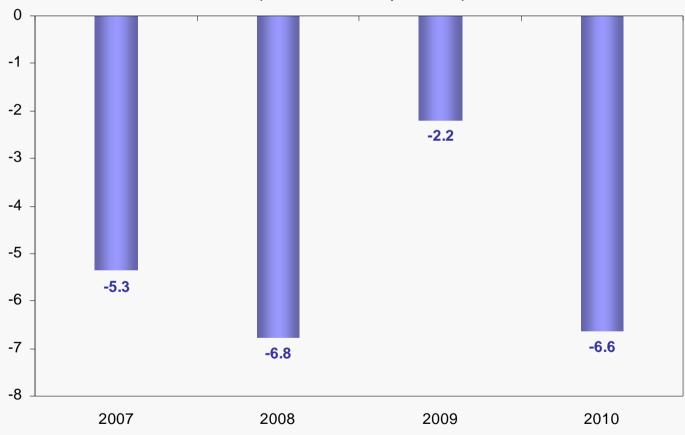
^{**} Rate of annual change in credit stock / GDP Source: BRSA, CBRT.



Challenges: (3) Current Account Deficit

Current Account Balance

(ratio to GDP, percent)



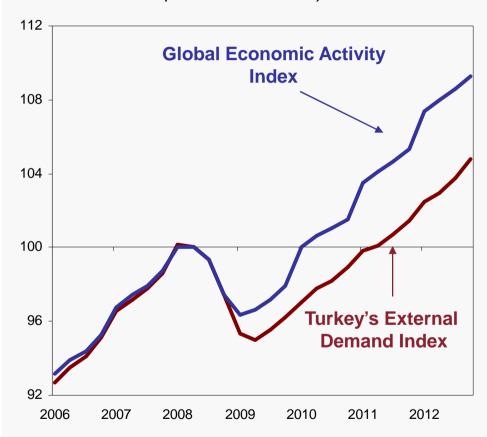
Source: TURKSTAT, CBRT



Challenges: (4) Weakness in External Demand

Turkey's External Demand Index*

(June 2008=100)

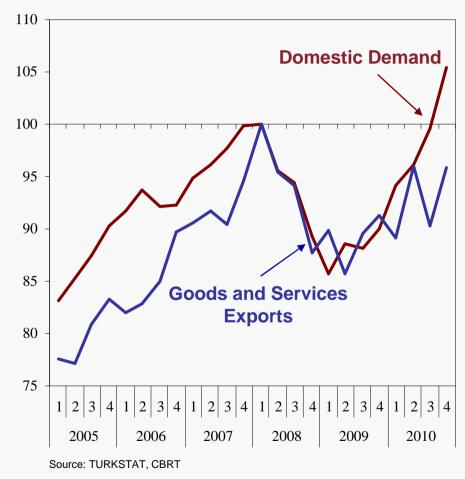


^{*} The shares of countries within the exports of Turkey and weighted GDP data are employed in the calculation of the external demand index of Turkey.

Source: Bloomberg, Consensus Forecasts, IMF WEO, TURKSTAT, CBRT

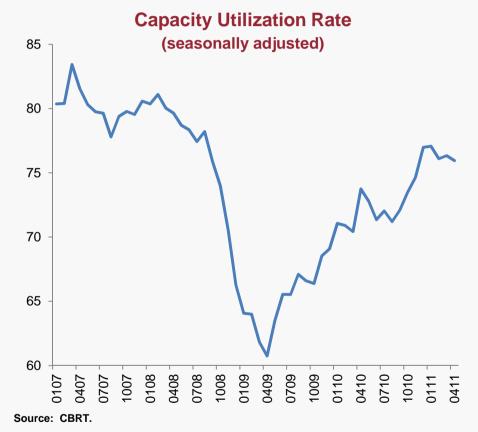
Domestic Demand and Exports

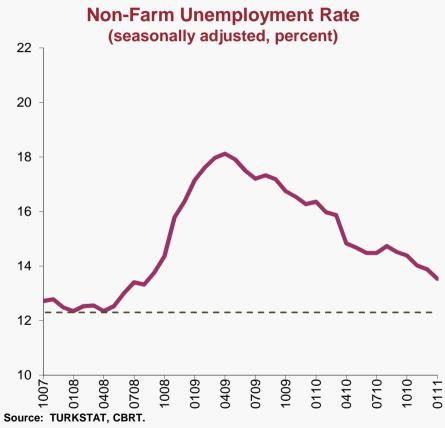
(2008 Q1=100)



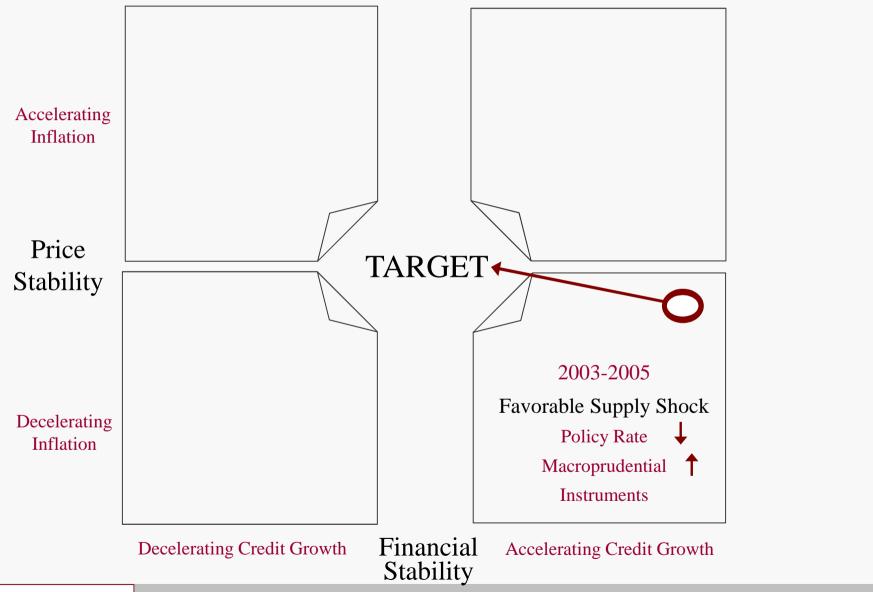


Challenges: (5) Output Gap

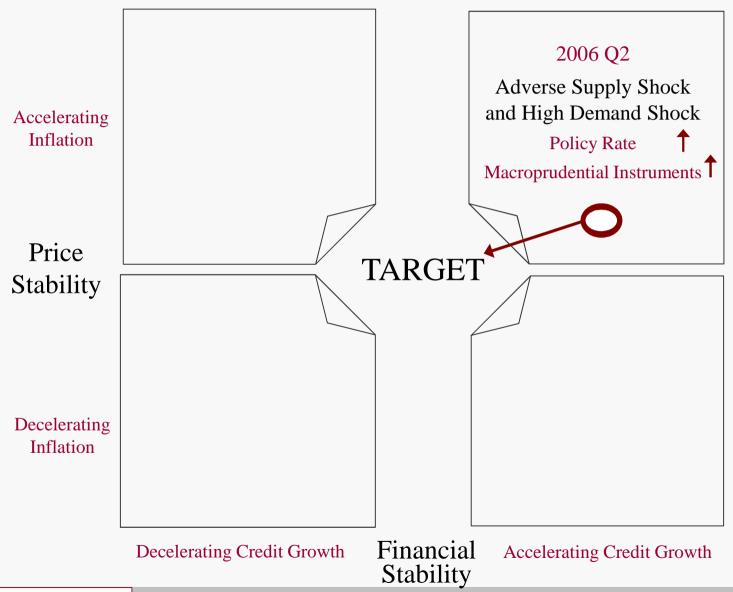


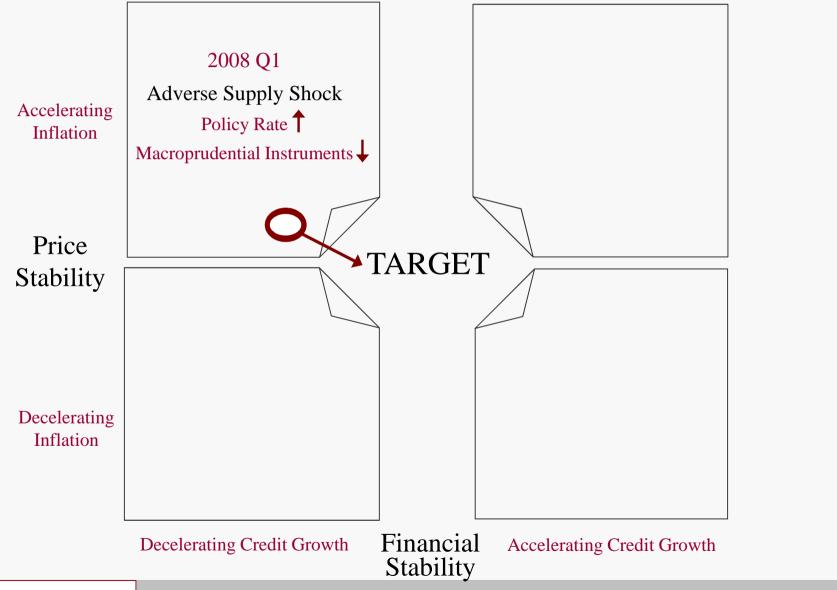


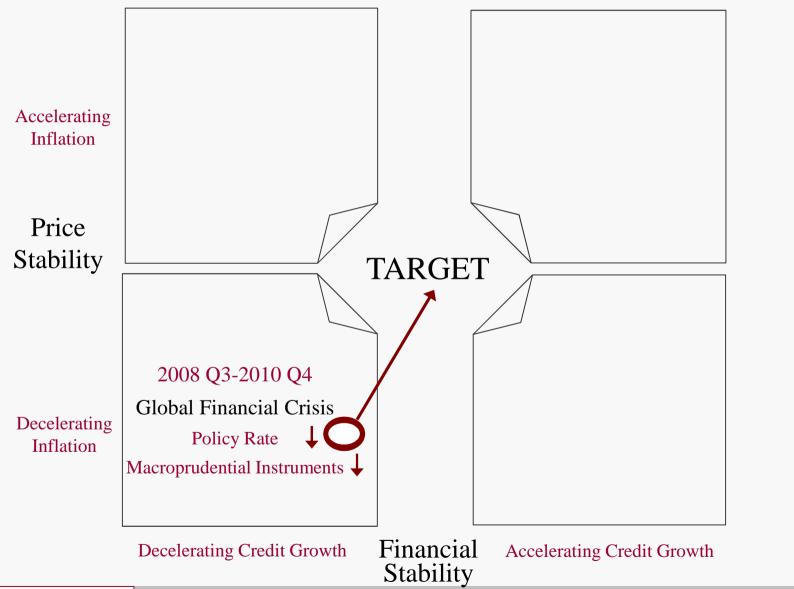
III. Monetary Policy Reponse: Turkey's Experience

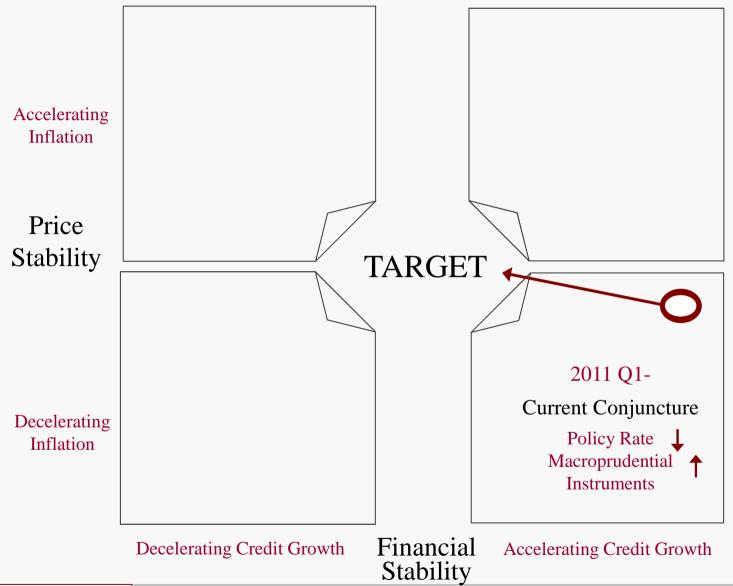












Quantitative Easing vs. Quantitative Tightening

- Quantitative easing in major economies has continued in response to weakness in economic activity and heightened sovereign risks, resulting in unprecedented increases in central banks' balance sheets.
- Facing a significant degree of capital inflows, some emerging economies have resorted to quantitative macroprudential tightening, even capital flow measures.
- Turkey has also initiated quantitative tightening via its exit strategy in April-November 2010 (QT1) and reserve requirement hikes after November 2010 (QT2).



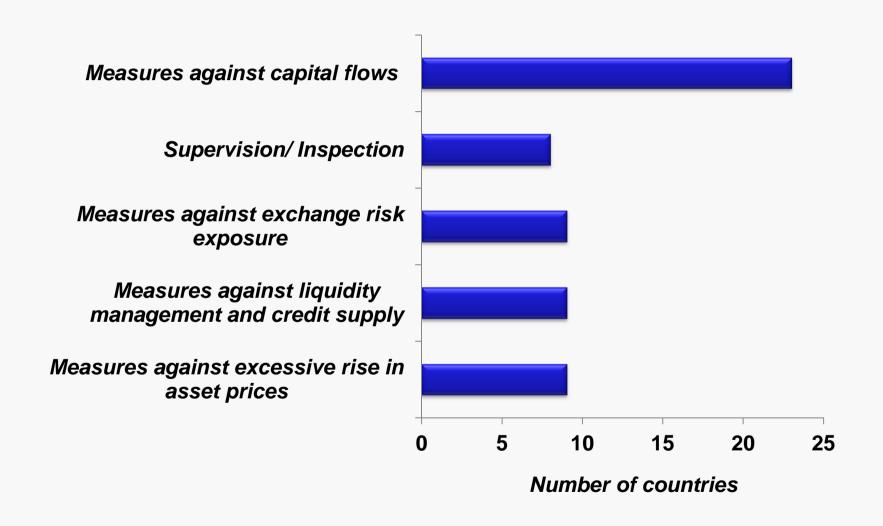
Two Different Approaches

 Approach 1: Use capital flow measures to restrict inflows while tightening via interest rates (Brazil, Republic of Korea)

• <u>Approach 2:</u> Use macroprudential measures to restrict domestic credit and domestic demand while keeping the short term interest rate differentials as low as possible (Turkey)



Macroprudential Measures





The New Policy Mix: Turkey

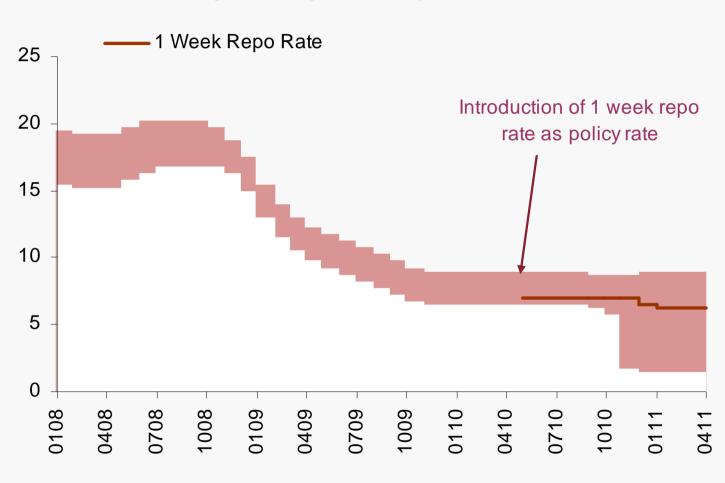
A lower policy rate, higher reserve requirement ratios and a wider interest rate corridor

- The framework we adopt is not significantly different from the conventional inflation targeting framework.
- The only difference is that, previously our policy instrument was the oneweek repo rate, but currently our instrument is a "policy mix"
- We seek to use these instruments in the right combination in order to cope with both inflation and macro-financial risks.
- The monetary policy stance in this framework is determined not by policy rates alone, but as a combination of all the policy instruments.



The Policy Rate and Interest Rate Corridor

Overnight Lending - Borrowing Interest Rate Spread



Source: CBRT



Reserve Requirements as a Macroprudential Tool

Reserve Requirement Ratios (percent)



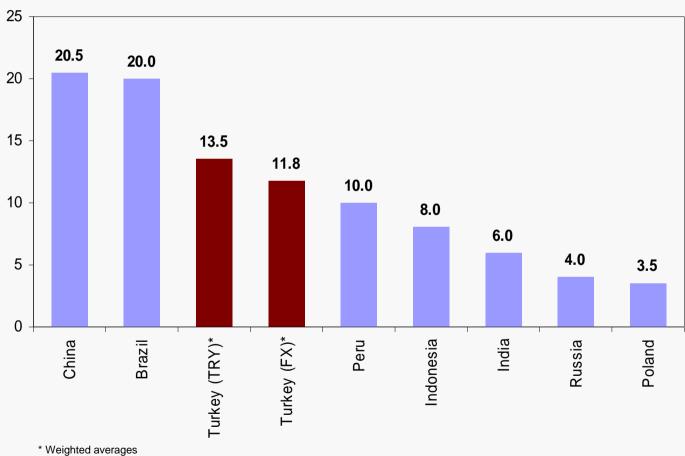




Reserve Requirements as a Macroprudential Tool



(percent)



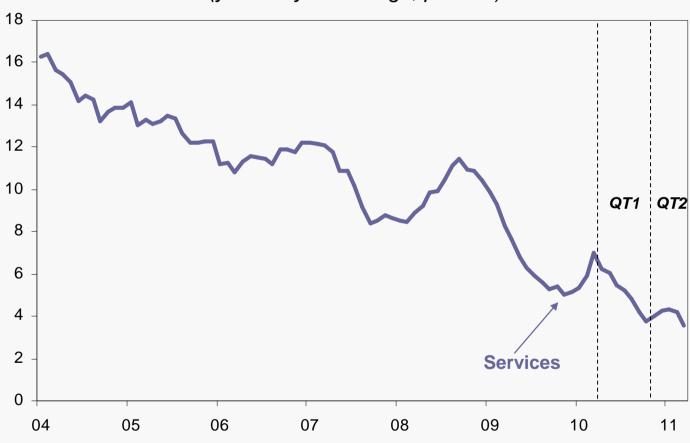
* Weighted averages Source: Central Banks, CBRT



Disinflation via Quantitative Tightening



(year-on-year change, percent)



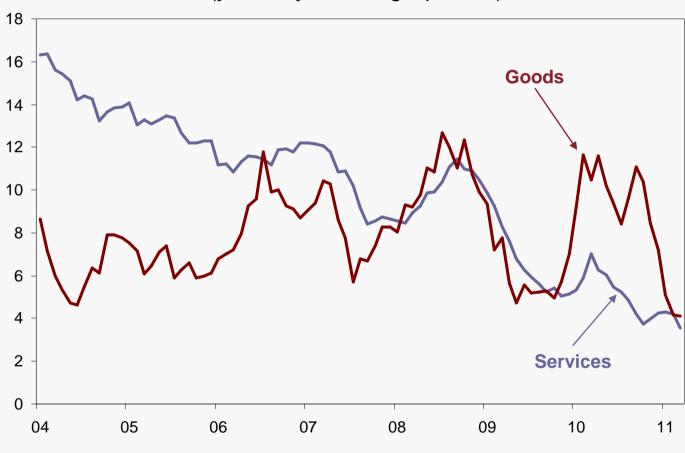
Source: TURKSTAT, CBRT



Goods Prices

Goods and Services Prices

(year-on-year change, percent)



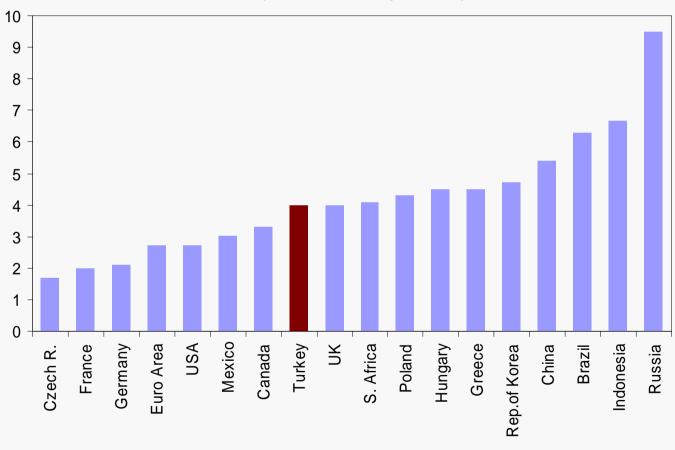
Source: TURKSTAT, CBRT



Comparison of Inflation Rates

Inflation Rates in Turkey and around the Globe

(March 2011, percent)

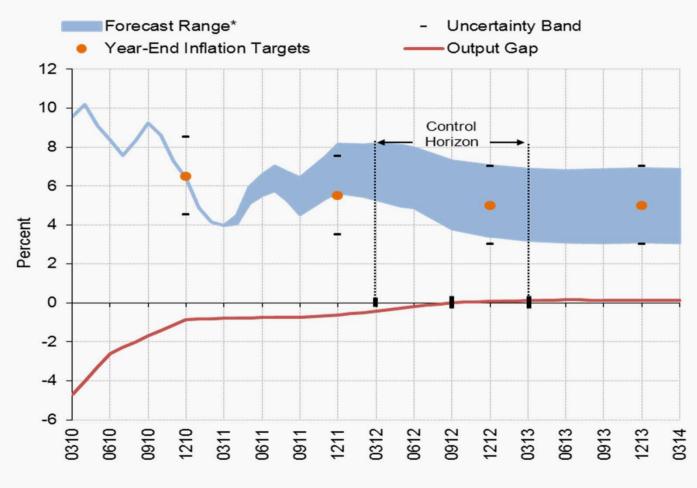


Source: Bloomberg, CBRT



Price Stability

Inflation and Output Gap Forecasts







Financial Stability: Objectives

- 1. **Debt Ratios:** Use of more equity, more prudent borrowing
- **2.** <u>Debt Maturities:</u> Extending maturities of domestic and foreign borrowing and deposits
- **3. FX Positions:** Strengthening FX positions of public and private sectors
- **4.** Risk management: More effective management of all types of risks by all agents in the economy

Macroprudential Tools

- It may not always be possible to attain price stability and financial stability together, by means of policy rates alone.
- **Solution:** Use macroprudential tools in coordination with other public authorities.

Macroprudential tools:

- 1. Reserve requirements
- 2. Liquidity management
- 3. Capital adequacy ratios
- 4. Liquidity adequacy ratios
- 5. Taxes
- 6. Primary expenditures of government



Measures Taken by Other Authorities

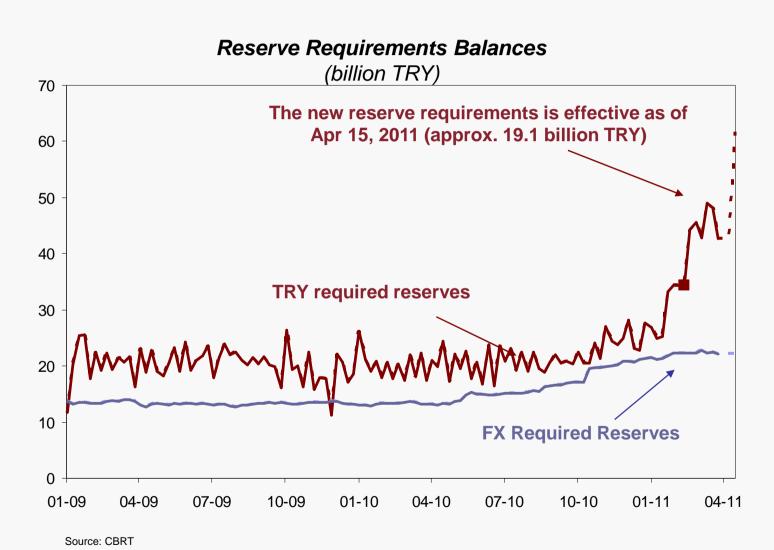
- 1. Fiscal discipline
- 2. Ban on FX loans to households
- 3. Domestic currency bond market
- 4. Loan/value restrictions
- 5. Tax hikes on certain consumer loans
- 6. Restrictions on credit card borrowing



IV. Financial Stability Outcomes So Far



Results: (1) Tightening the Liquidity

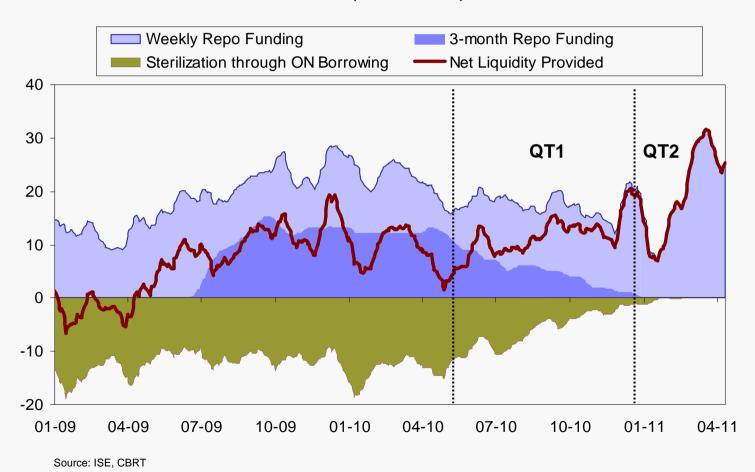




Results: (2) Funding More Dependent on CB

Central Bank Liquidity

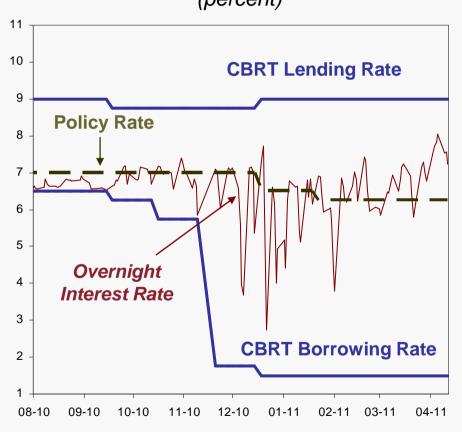
(billion TRY)





Results: (3) Volatility in Overnight Rates

Overnight Interest Rates (percent)



Volatility in Overnight Interest Rates

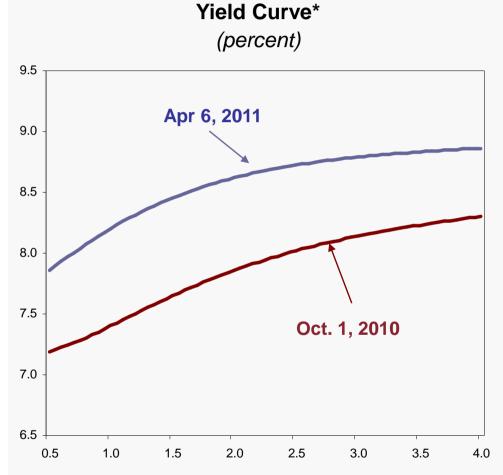
(2-week standard deviation)



Source: ISE, CBRT Source: ISE, CBRT



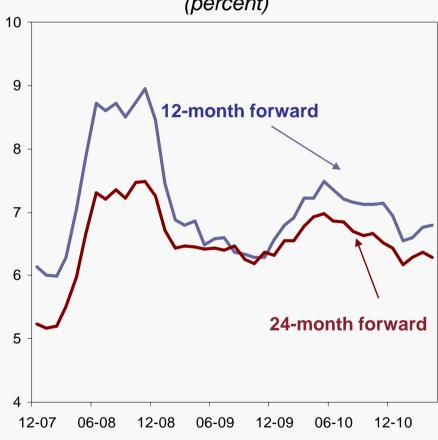
Results: (4) Tightening of Monetary Conditions



* Calculated from the compounded returns on bonds quoted in ISE Bills and Bonds Market by using ENS method. Source: ISE, CBRT

Inflation Expectations*



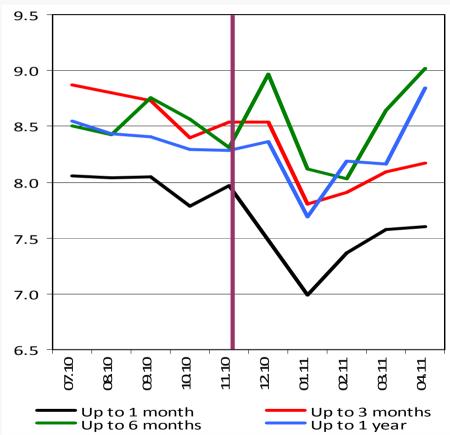


* CBRT Expectations Survey results from the second survey period. Source: ISE, CBRT

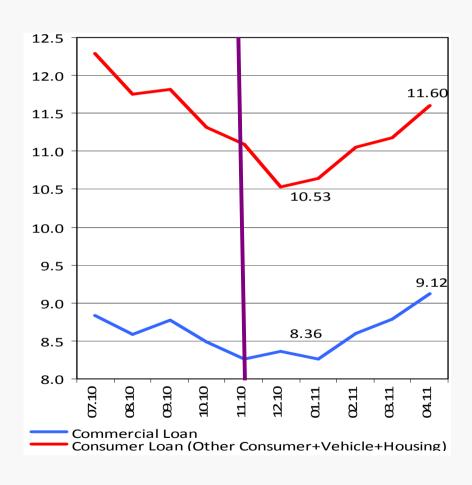


Results: (5) Creating Wedge between Interest Rates





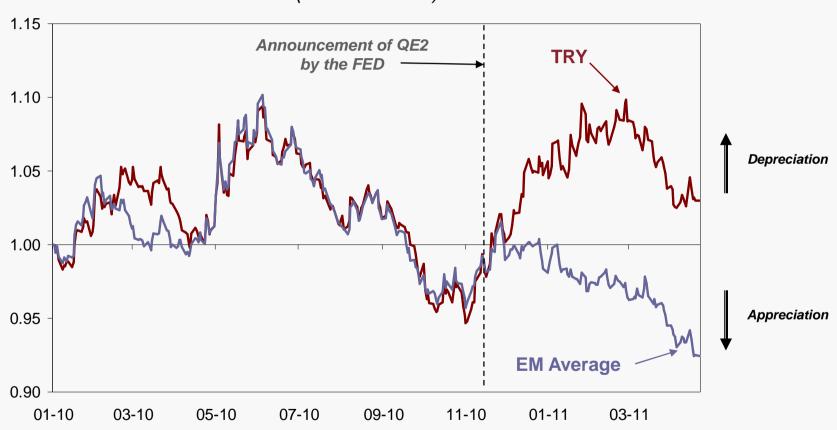
Interest Rates on Loans*



Results: (6) Alleaviating the Pressure on Currency

USD against EM Currencies and TRY*

(4 Jan 2010=1)

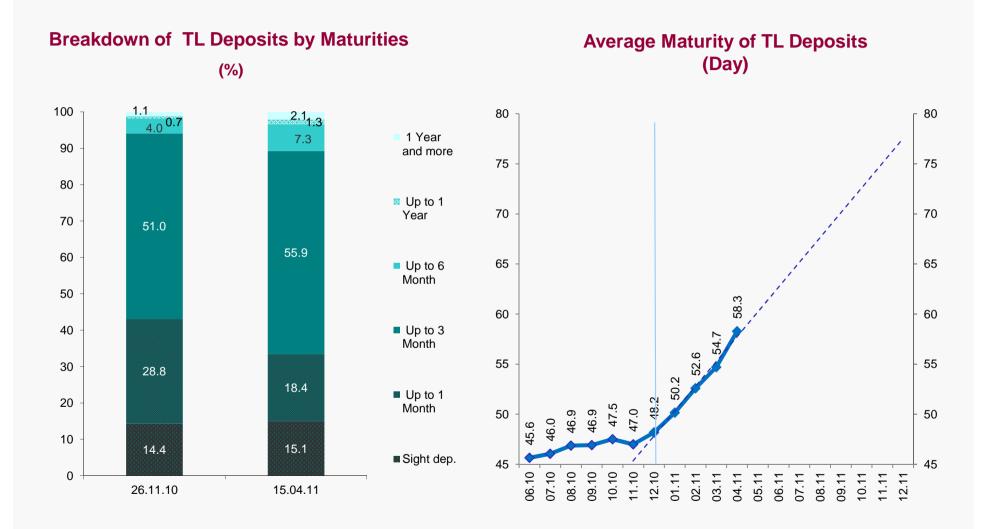


^{*} Average of emerging market currencies including Brazil, Chile, Colombia, Czech Republic, Indonesia, Hungary, Mexico, Poland, Republic of Korea and South Africa.

Source: Bloomberg, CBRT



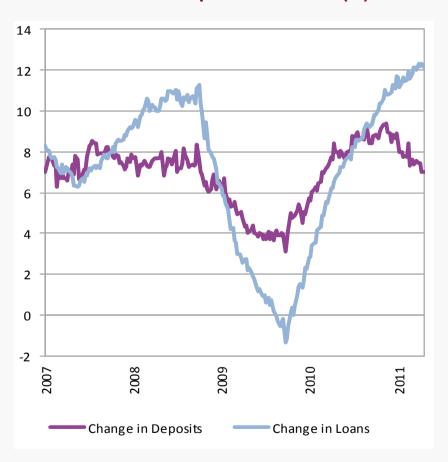
Results: (7) Extending the Maturity of Deposits





Results: (8) Containing the Acceleration in Credit Growth

Loans* and Deposits** to GDP (%)



Annual Change in Credit Volume (%)



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