



EUROPEAN CENTRAL BANK

Market Efficiency – A Policy Perspective

Marcel Fratzscher
European Central Bank

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**Disclaimer: The talk presents the author's personal opinions and
does not necessarily reflect the views of the European Central Bank.**

Market efficiency and policy

- **Eugene Fama's seminal work on market efficiency**
 - **Guide for understanding market outcomes...**
 - **...but also role and limitations of economic policy**
- **An uneasy relationship between market outcomes and macroeconomic policy-making**
- **What policy can do ...**
- **...and what it should not (attempt to) do**

“The inability to anticipate changes in supply and demand for a currency is at the root of the statistically robust finding that forecasting exchange rates has a success rate no better than that of forecasting the outcome of a coin toss.”

Gov. Alan Greenspan, 19 November 2004

I. Financial Globalization

- **Increased role of financial markets**
 - **Massive rise in the size of financial markets and transaction volume**
 - **Substantial degree of financial market interdependence**
 - **Real integration of economies fostering financial integration**
- **Rising importance and impact of financial markets for policy**
- **Impotency of policy in influencing/guiding markets ??**

II. Why Markets Matter

- **Market efficiency as a key policy objective**
 - Policy does not necessarily have conflicting objective, but rather...
 - Policy objective can only be: asset prices should reflect (macro-)economic fundamentals and surrounding risks appropriately
- **Policy concern are about misalignments and excessive volatility**
 - But does this have to imply market “inefficiency”?
 - Not necessarily: depends on definition of the term “market efficiency”

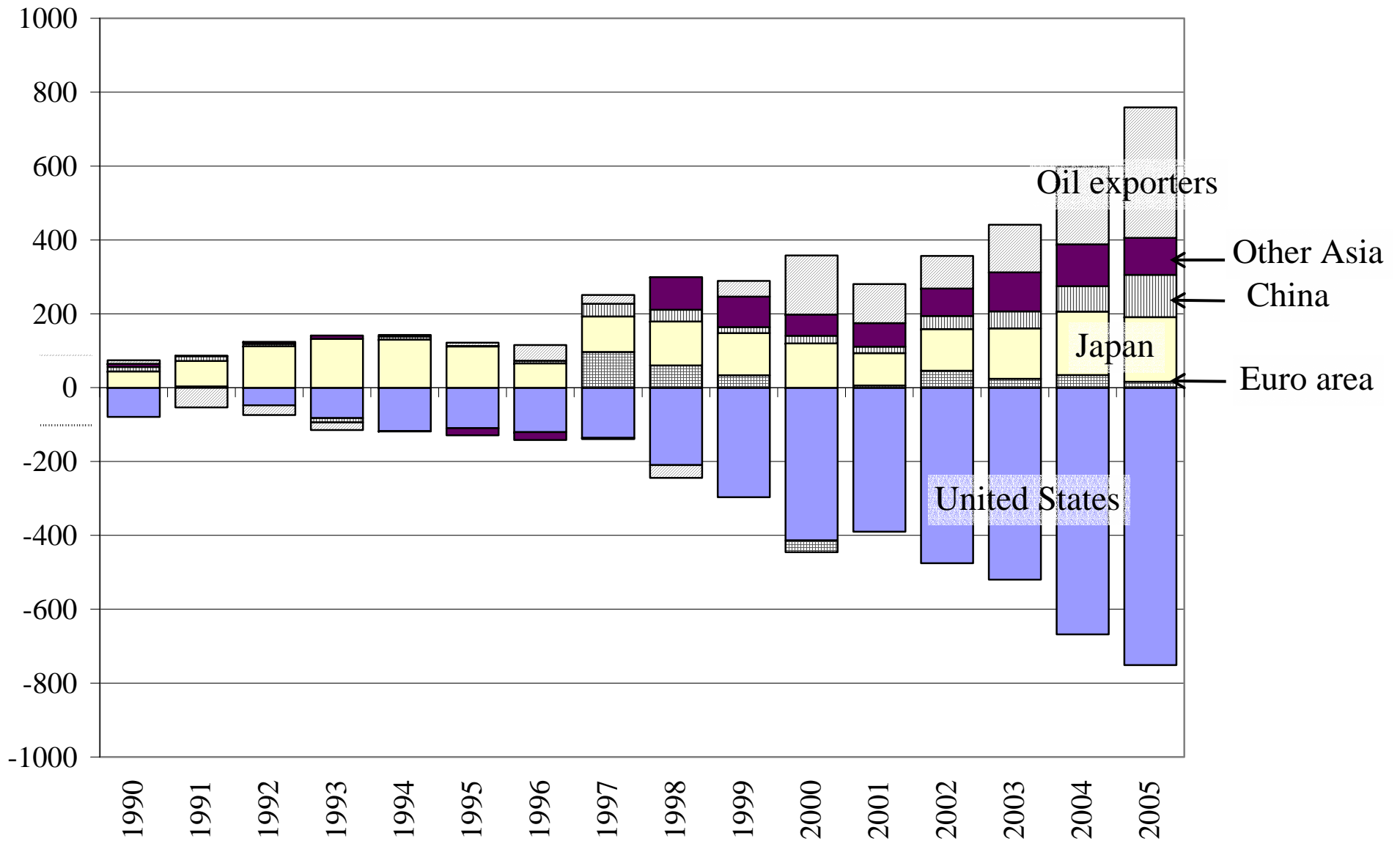
Why Markets Matter

- **Some sources of market “inefficiency”**
 - *False perception* of true “fundamentals”
 - *Beliefs matter*: self-fulfilling expectations – herd behaviour – multiple equilibria / outcomes
 - **Economic fundamentals are *endogenous* to markets: example of 1997-98 Asian financial crisis**
 - *Contagion* – international transmission of shocks unrelated to economic fundamentals: example of financing constraints for hedge funds during crisis
- **Example: a “rational” asset price bubble (N. Roubini’s presentation)**

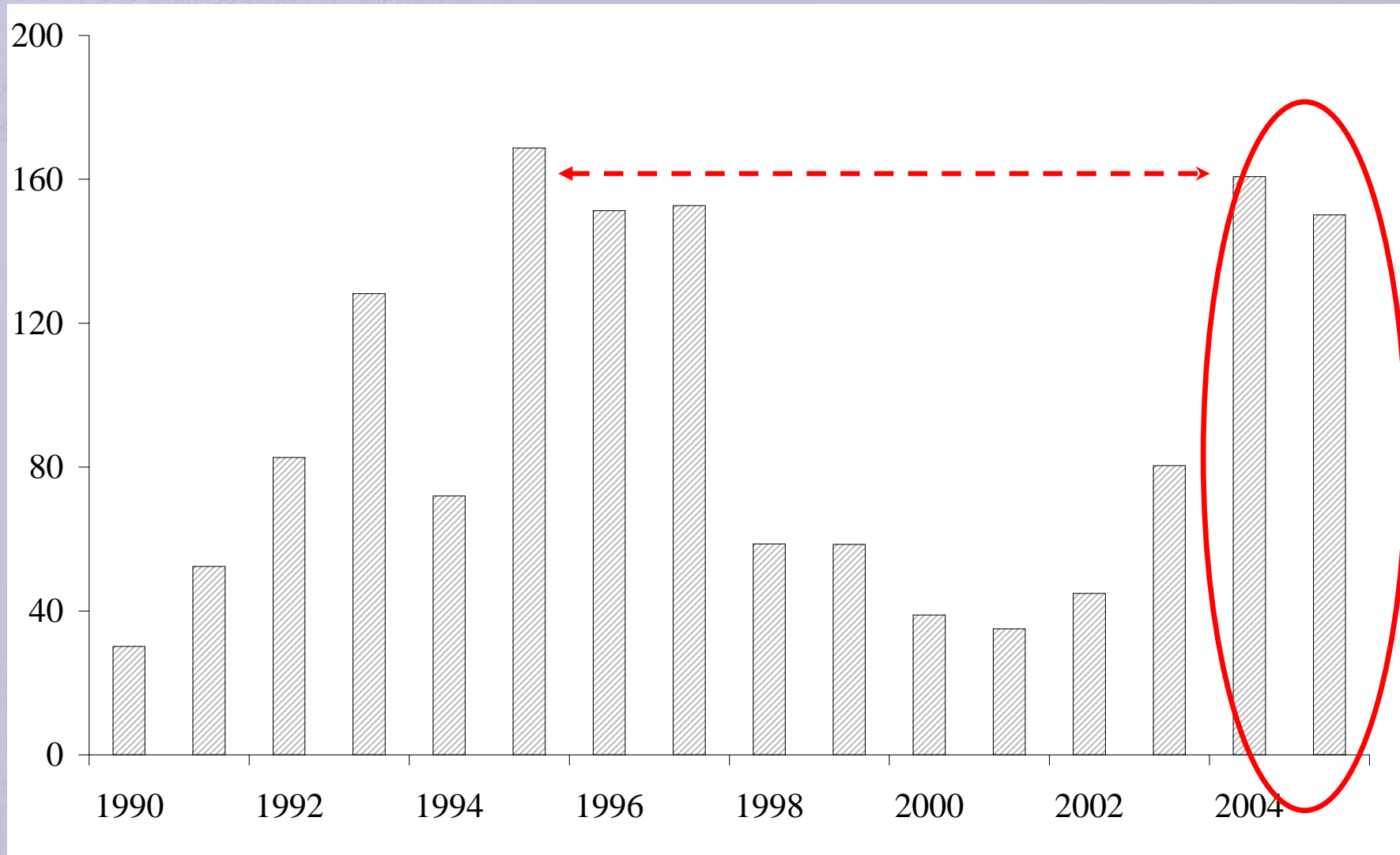
III. Market (In)efficiency Today ?

- **Market overshooting has been a persistent phenomenon over time**
- **“Global imbalances” as the catchphrase of today’s international policy debate**
 - **Trade imbalances (US CA deficit > 6% of US GDP)**
 - **Bond market “conundrum”**
 - **Huge capital flows from poor to rich countries**
 - **Emerging markets: very low bond spreads reflecting excessive risk-taking ?**
 - **Asset price boom – esp. housing markets worldwide**
 - **Oil price hike**

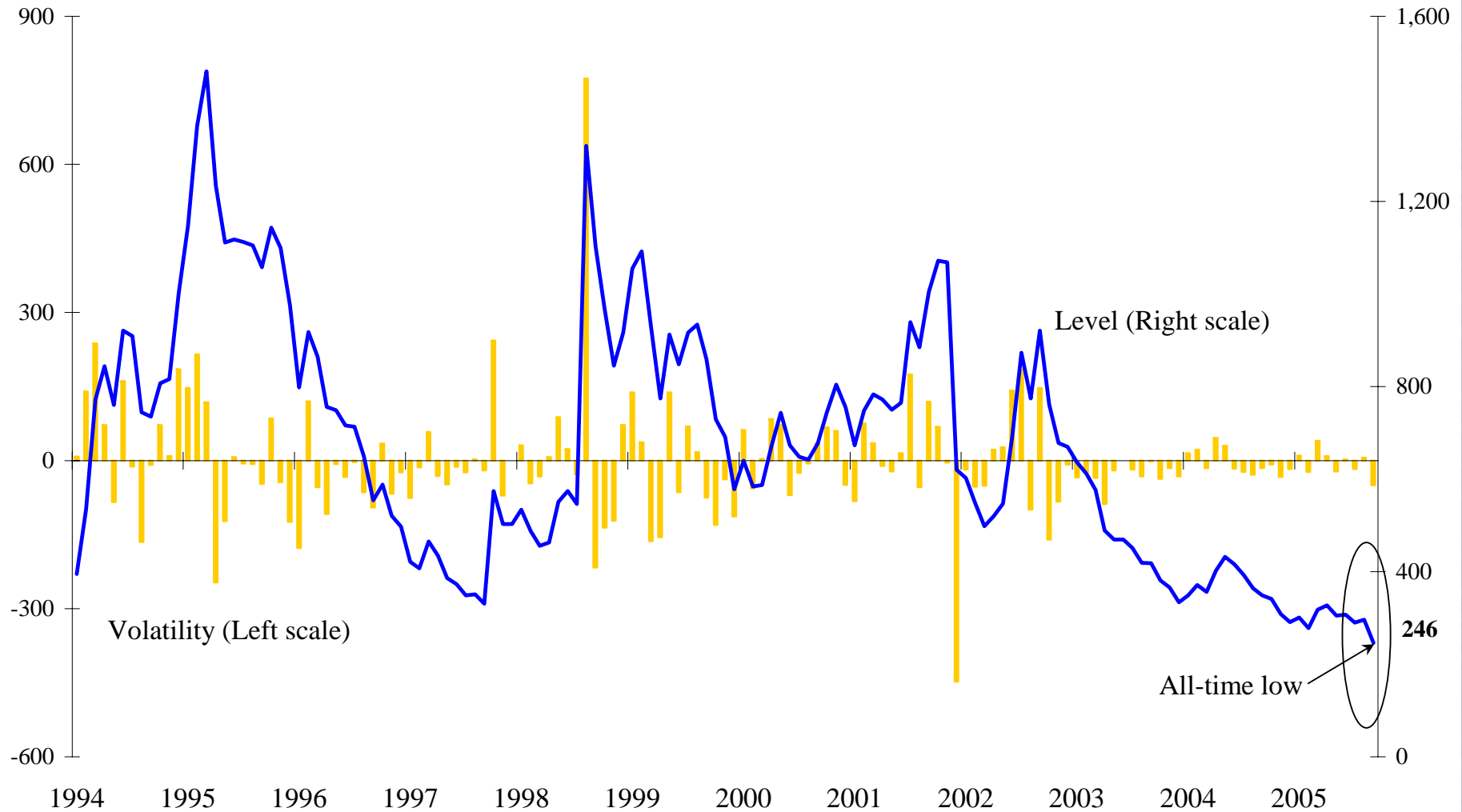
Global current account positions



Financial flows to EMEs

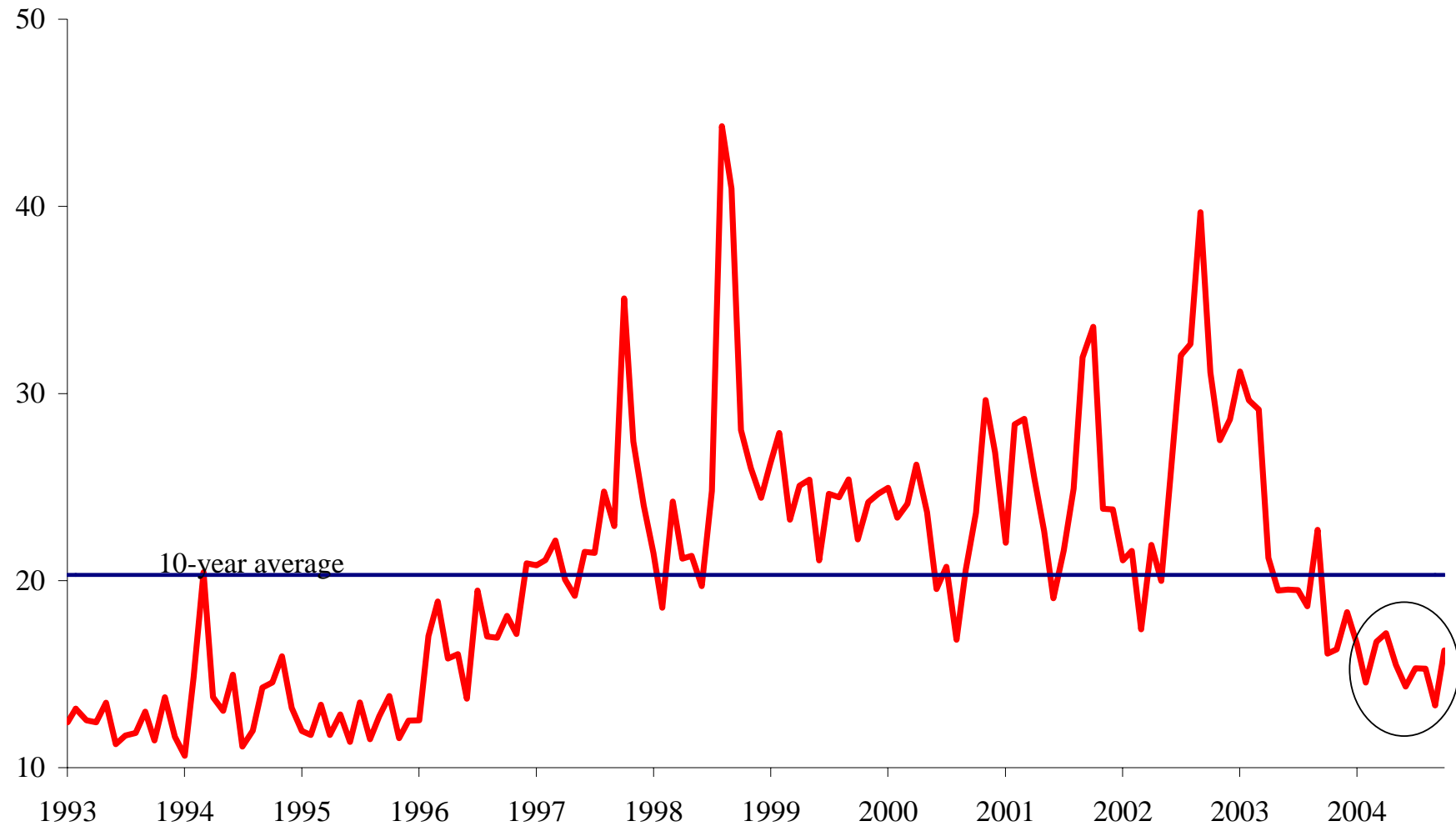


Emerging market sovereign spreads



Source: JP Morgan (EMBI+) and ECB staff calculations. Volatility is defined as the monthly change in the spread index.

Investor risk aversion (re. SPX options vol.)



Source: Bloomberg and ECB staff calculations.

Market (In)efficiency Today ?

- **Much progress has been made:**
 - Many new financial instruments to price fundamentals and underlying risks
 - Much better availability of information
 - More powerful (incl. statistical) tools for pricing and the analysis of risks
- **But market imbalances keep re-occurring... and with ever greater destabilising force**
- **What role for policy?**
 - Policy to address imbalances and market inefficiency
 - ...versus: policy as the source of imbalances

IV. What Can Policy Do (and what not) ?

1. **Transparency**: about objectives, strategy and instruments of policy
2. Provide **information**: central banks & others have valuable, private information
3. Guarantee **stability**: price stability, stable macroeconomic & regulatory environment
4. Allow markets to **function**: enable risks to be priced appropriately, avoid perverse incentives (example: exchange rate regimes in Asia)

Credibility of essence for policy success

What Can Policy Do (and what not) ?

- **Can policy counteract market inefficiency?**
 - **Nouriel Roubini: monetary policy and the pricking of an asset price bubble**
- **But *limitations* of policy:**
 - **Impotency of policy instruments: limited number and reach of instruments (example: Hong Kong 2000s)**
 - **Lack of information: What is a bubble? – What is the “appropriate” pricing of an asset?**
 - **Theory of the second best: policy may make market outcomes (even) worse**

V. Conclusions

- **Policy has an important role to play for financial markets**
- **But limitations**
 - **Limited potency of policy instruments**
 - **Information of key importance; but large information asymmetries always persist**
 - **Policy all too often the source of economic imbalances and market inefficiencies**
- **Policy role as an *anchor* rather than a manager of financial markets**