Convergence in the Baltics: From Boom to Bust?



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Outline

- What drove the Baltic boom...
- ...and why is it coming to an end now?
- Vulnerabilities: external imbalances and foreign exchange mismatches
- Why the Baltics are different
- How to achieve a soft landing avoiding the Portuguese trap

Income convergence has been faster than in other new member states and the rest of the world

Convergence in Emerging Europe and in the Rest of the World, 2002–06



It has been mainly driven by improvements in total labor productivity

Emerging Europe: Growth Accounting, 2002–06 *Percent per year*



The boom has been fueled by very high credit growth

Growth in GDP and credit to the private sector





Source: Eurostat, national authorities.

Procyclical fiscal policies have added oil to the fire

Change in Actual and Structural Fiscal Balances, 2003–07 1/ Percent of GDP

Change in structural balances Change in actual balances

Source: IMF, World Economic Outlook; and IMF staff calculations.

1/ The structural balances do not take into account spending related to pension reform and spending related to EU transfers.

And so have loose monetary policies

Emerging Europe: Lending Interest Rate minus "ideal" suggested by Taylor Rule, 2003–07

The overheating has contributed to consumer price inflation...

Source: WEO April 2008.

...and soaring real estate prices

Residential property prices

YoY change in local currency – real terms, period averages

Source:UniCredit Group, Regional Overview.

Since mid-2007 growth has been cooling fast ...

Source: IMF WEO April 2008.

... mainly driven by a slow-down of credit growth

Two key vulnerabilities associated with the economic boom:

- Large external imbalances (double-digit current account deficits, highly negative international investment position)
- Large currency mismatches (especially in the balance sheets of households and corporates)

The credit boom was mainly funded by a build-up of external debt

Change in external debt an and credit to the private sector, 2002-2007 in GDP percentage points

Sources: National authorities; and IMF staff calculations.

The overheating of the economy led to exceptionally high current account deficits.

Current account deficit

Source: IMF WEO April 2008.

Since the onset of the global credit crisis, markets have viewed the Baltics as more risky

CDS spreads July 17, 2007- May 28, 2008

Source: Bloomberg.

This is mainly due to their large external imbalances

Emerging Europe: Bond Spreads and Current Account Deficits

Determining CA sustainability in the new member states (Rahman, IMF WP 08/92)

Macroeconomic balance approach: estimate current account norms based on macro fundamentals (59 countries, annual data 1971-2007)

CA norm = f (fiscal balance, demographics, net foreign assets position, relative per capita income, etc.)

 \Rightarrow CA norm in the new member states are higher than elsewhere because:

•Large share of dependent population

- (=> lower national savings => higher CA)
- Lower net foreign asset position
- (greater dependence on foreign capital for growth)

But CA deficits in the Baltics still exceed what would be consistent with macro fundamentals

Current Account Balances and Model Predictions *Percent of GDP*

Source:Rahman 2008.

What drives the divergence from CA norms?

- Cyclical or temporary factors: output gap, capital inflows due to EU accession
- Structural factors: export composition, cost competitiveness in manufacturing sector
- Policy-related factors: exchange rate regime, financial sector policies

The Baltics have built up large currency mismatches...

Net FX position, 2007 percent of GDP

Change in net FX position, 2002-2007, percent of GDP

Sectoral net FX position, 2007, percent of GDP

Source: National authorities, IMF staff calculations. *excluding Slovakia

... especially in the household sector

Latvia: Fx liabilities and assets of the household sector

There are substantial differences in dollarization between new member states

Credit to GDP ratio in local currency vs foreign currency in %, year 2007

Source: National authorities, IMF staff calculations.

What drives dollarization in the new member states? (Rosenberg and Tirpak, forthcoming – work in progress)

Hypothesis: Share of the fx loans depends on:

- interest rate differential
- loan-to-deposit ratio
- GDP level
- exchange rate regime
- EU/EMR2 membership
- openness (export/GDP, remittances)
- regulatory measures

Index of regulatory measures:

$$Index_{i,t} = \sum policy_{i,t}$$

| Policies to discourage foreign currency borrowing (policy _{$i,t)$} | | |
|--|-----|--|
| Monitoring FX risk | 0.2 | |
| Disclosure FX risks to customers | 0.4 | |
| Tightening eligibility criteria for FX borrowing | 0.6 | |
| Higher risk weights/provisioning/reserve requirements depending on banks' FX exposure | | |
| Ceilings on banks' FX exposure | 1.0 | |

Estimation results

| | | Domestic banks only | | | Including cross-border loans | | |
|----------------------------|-----------|---------------------|-------------|-------------|------------------------------|-------------|------------|
| | | А | В | С | D | E | F |
| Interest rate differential | | 0.00111** | 0.00128** | 0.00111** | 0.00199*** | 0.00209*** | 0.00198*** |
| | st. error | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Loan-to-deposit ratio | | 0.13164*** | 0.16443*** | 0.13817*** | 0.06772*** | 0.08777*** | 0.06639*** |
| | st. error | 0.0208 | 0.0253 | 0.0178 | 0.0198 | 0.0239 | 0.0170 |
| GDP per capita in 2000 | | -0.71416*** | -0.67022*** | -1.05789* | -0.75616*** | -0.72001*** | -1.00075* |
| | st. error | 0.2582 | 0.1746 | 0.5979 | 0.2725 | 0.1970 | 0.5353 |
| | | 0.40040*** | 0.40000++++ | | 0.07040** | 0.07040*** | |
| GDP (PPS, 2000) | | -0.10848*** | -0.10926*** | | -0.07612** | -0.07842*** | |
| | st. error | 0.0300 | 0.0201 | | 0.0316 | 0.0227 | |
| Exchange rate volatility | | -0.00009 | -0.00010 | -0.00010 | -0.00023 | -0.00022 | -0.00023 |
| | st. error | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0002 |
| EU membership | | 0.01054 | | | 0.00258 | | |
| | st. error | 0.0096 | | | 0.0092 | | |
| ERM 2 membership | | | -0.01421 | | | -0.01141 | |
| | st. error | | 0.0154 | | | 0.0144 | |
| Openness | | 0.02955 | 0.02024 | 0.07630** | 0.11697*** | 0.10301*** | 0.14516*** |
| | st. error | 0.0399 | 0.0370 | 0.0361 | 0.0384 | 0.0356 | 0.0345 |
| Restrictions (lagged) | | -0.01884*** | -0.01913*** | -0.01995*** | -0.00621 | -0.00668 | -0.00687* |
| | st. error | 0.0044 | 0.0049 | 0.0042 | 0.0042 | 0.0046 | 0.0041 |
| Constant | | 1.80251*** | 1.77807*** | 0.70773*** | 1.49995*** | 1.50993*** | 0.74238*** |
| | st. error | 0.3192 | 0.2186 | 0.2635 | 0.3349 | 0.2432 | 0.2360 |
| Adi. R sa. | | 0.65 | 0.67 | 0.47 | 0.57 | 0.58 | 0.43 |
| Observations | | 285 | 285 | 285 | 284 | 284 | 284 |

Note: *; **; *** refers to significance at 10%, 5%, and 1% level respectively.

Country sample -- Bulgaria, Croatia, the Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Romania, and Slovakia. Time sample -- 1Q 1999 - 4Q 2007

Source: Authors' calculations.

Preliminary conclusions of fx study:

- *Dollarization* is a byproduct of convergence.
- EU membership boosts foreign exchange borrowing through multiple channels:
 - it offers better access to foreign funds in a fully liberalized environment of capital flows,
 - it provides natural hedging opportunities, through increasing trade openness,
 - it may boost private sector's confidence in exchange rate stability and imminent euro adoption.
- Regulatory measures have limited effectiveness due to opportunities to borrow directly from abroad (i.e., for corporations).

Will the Baltics follow the Portuguese path?

- Rapid convergence after joining the EU
- Since 2001, sub-par growth and high C/A deficits
- Wage increase exceeded productivity growth and undermined competitiveness

Or relive the Asia experience?

- Strong growth, driven by foreign borrowing
- In 1997, sudden stop of capital inflows, fixed currency regimes collapsed
- Painful recession aggravated by currency mismatches, but relatively fast recovery

What makes the Baltics different?

EU membership has created circumstances that are different from the textbook case:

- Very open capital markets, role of Nordic parent banks
- Labor is highly mobile (emigration)
- Strong commitment to currency pegs, perceived to be backed by EU

Trade and financial integration has accelerated

Sources: World Economic Outlook; International Financial Statistics; country authorities; and Fund staff calculations.

1/ Trade openness is defined as total trade (imports plus exports) in percent of GDP.

2. Financial deepening is defined as cedit to private sector in percent of GDP.

3. Financial openness is defined as the sum of total external asset and toal external liabilities in percent of GDP.

Foreign bank presence offers protection against a sudden Asia-style withdrawal...

Asset share of foreign owned banks percent

| | 2006 |
|-----|------|
| EST | 99.1 |
| LAT | 62.9 |
| LIT | 91.8 |
| CE4 | 84.7 |

Source: EBRD.

... but it also exposes the Baltics to common-lender contagion risk

Concentration of Emerging Europe Exposure to Western Europe, June 30, 2007

Source: Bank for International Settlements, Quarterly Review, December 2007.

Note: Country names are abbreviated according to the ISO standard codes.

1/ Emerging Europe exposure to western European banks is defined as the share of the reporting banks in each western European country in the total outstanding claims on a given emerging European country (both bank and nonbank sectors). For example, about 42 percent of Croatia's exposures to Western European reporting banks is owed to Austrian banks, 38 percent to Italian banks, 13 percent to French banks, etc. For the Baltic countries, 85 percent or more of exposures to the reporting banks is owed to Swedish banks.

Labor markets are flexible, but emigration has made it more difficult to contain wage growth

Annual nominal wage growth percent

Fixed exchange rate have weathered the

loss in confidence well

Source: Bloomberg.

1/ Calculated cross rate as the product of currency US\$-euro rate, using average of bid and ask prices.

How can a soft landing be achieved?

- 1. Fiscal policies should not seek to offset a contraction in demand (this was Portugal's mistake).
- 2. Facilitate the switch of production and investment from non-tradables (retail, real estate) to tradables (manufacturing, tourism).
- 3. Wages should be flexible. Inward migration to the Baltics could help.
- 4. Strengthen financial supervision and crossborder cooperation. Ensure that banks are well prepared for the downturn.

The global credit crunch – a blessing in disguise

- It reduces the access to cheap financing
- It serves as a reminder that no boom lasts forever
- \Rightarrow Dampen expectations with regards to
- Continued rapid wage growth
- Large-scale public investment
- Speedy euro adoption

Thank you!

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