



Small Open European Economy and Dynamics of Banking Sector Regulation

— ♦ — ♦ — ♦ — ♦ — ♦ — ♦ — ♦ — ♦ — ♦ —
Prof. Michal Mejstřík

Charles University in Prague & EEIP, a.s.
Czech Republic

Meeting of EU27 Budget and Finance Committee Chairpersons
Prague, Parliament



Charles University
Faculty of Social Sciences
PRAGUE

— ♦ — ♦ — ♦ — ♦ — ♦ — ♦ — ♦ — ♦ — ♦ —
April 27-28, 2009



Contents



Charles University
Faculty of Social Sciences
PRAGUE

✦ Introduction

✦ Background of the crisis

✦ Response and Consequences

✦ CEE status

✦ Conclusion



Introduction

Be ready before the storm!



Contents



Charles University
Faculty of Social Sciences
PRAGUE

✦ Introduction

✦ Background

✦ Response and Consequences

✦ CEE status and Regulation

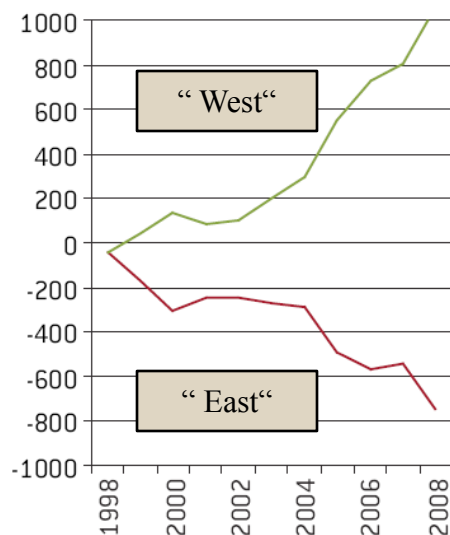
✦ Conclusion



Background

Current account balances and political regimes

All countries
(Aggregate current-account balances in US\$bn)



Countries with current-account surpluses
(Aggregate surpluses as % of world GDP)



1: Transfer of wealth

2: Emerging economies favor free trade over protectionism for the first time...

3: Developed economies private & public deficits financed by borrowings from underdeveloped countries

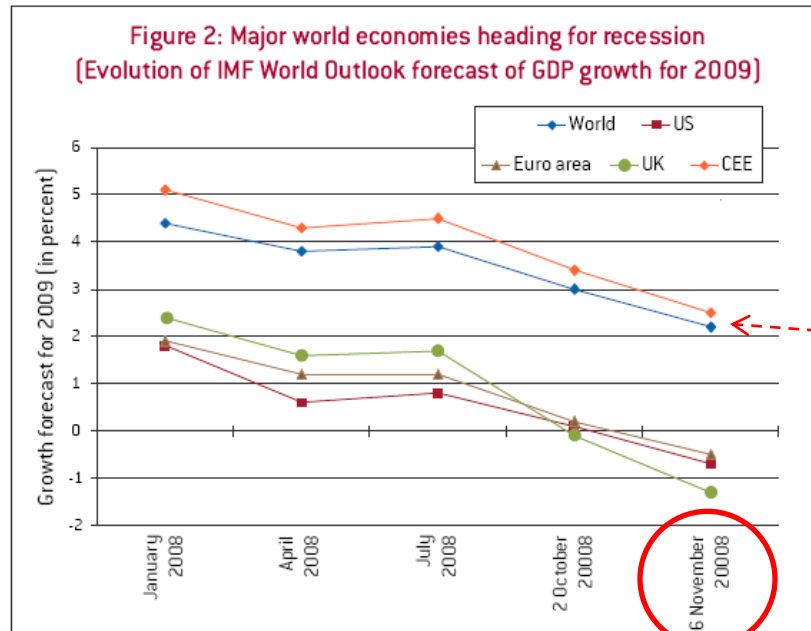
4: G20 new strategic set up

...and different levels of productivity!

Source: Roeller, Veron (2008), www.bruegel.org

Background

More and more pesimistic growth forecasts



Source: IMF, CEE: central and eastern European countries.

No.7 update of IMF forecast
of world GDP from April 22, 2009

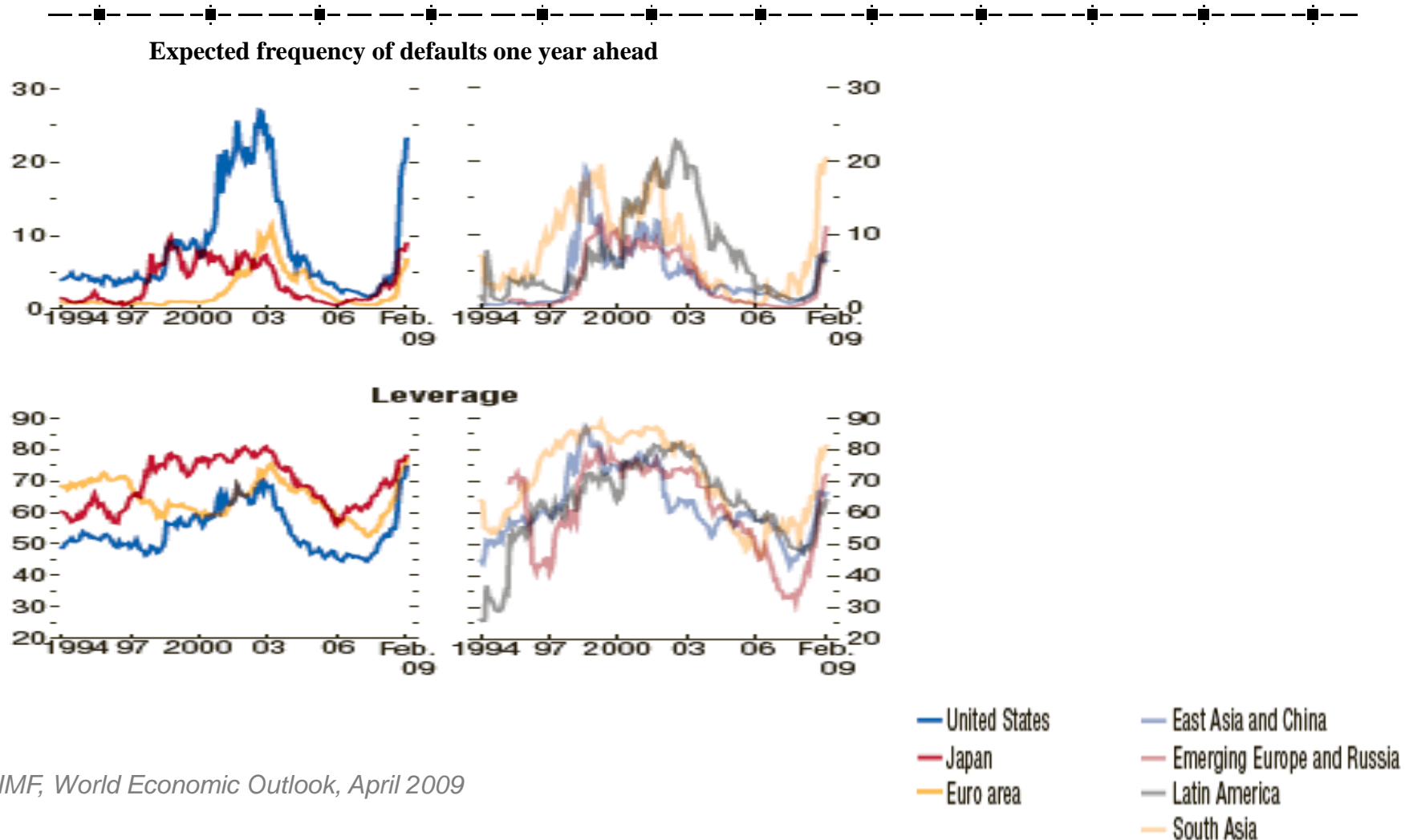
	2007	2008	Projections		Difference from January 2009 WEO projections	
			2009	2010	2009	2010
World output¹	5.2	3.2	-1.3	1.9	-1.8	-1.1
Advanced economies	2.7	0.9	-3.8	0.0	-1.8	-1.1
United States	2.0	1.1	-2.8	0.0	-1.2	-1.6
Euro area	2.7	0.9	-4.2	-0.4	-2.2	-0.6
Germany	2.5	1.3	-5.6	-1.0	-3.1	-1.1
France	2.1	0.7	-3.0	0.4	-1.1	-0.3
Italy	1.6	-1.0	-4.4	-0.4	-2.3	-0.3
Spain	3.7	1.2	-3.0	-0.7	-1.3	-0.6
Japan	2.4	-0.6	-6.2	0.5	-3.6	-0.1
United Kingdom	3.0	0.7	-4.1	-0.4	-1.3	-0.6
Canada	2.7	0.5	-2.5	1.2	-1.3	-0.4
Other advanced economies	4.7	1.6	-4.1	0.6	-1.7	-1.6

Currently expected decrease in world GDP in 2009,
structural changes...but bank portfolios will deteriorate
further

Background

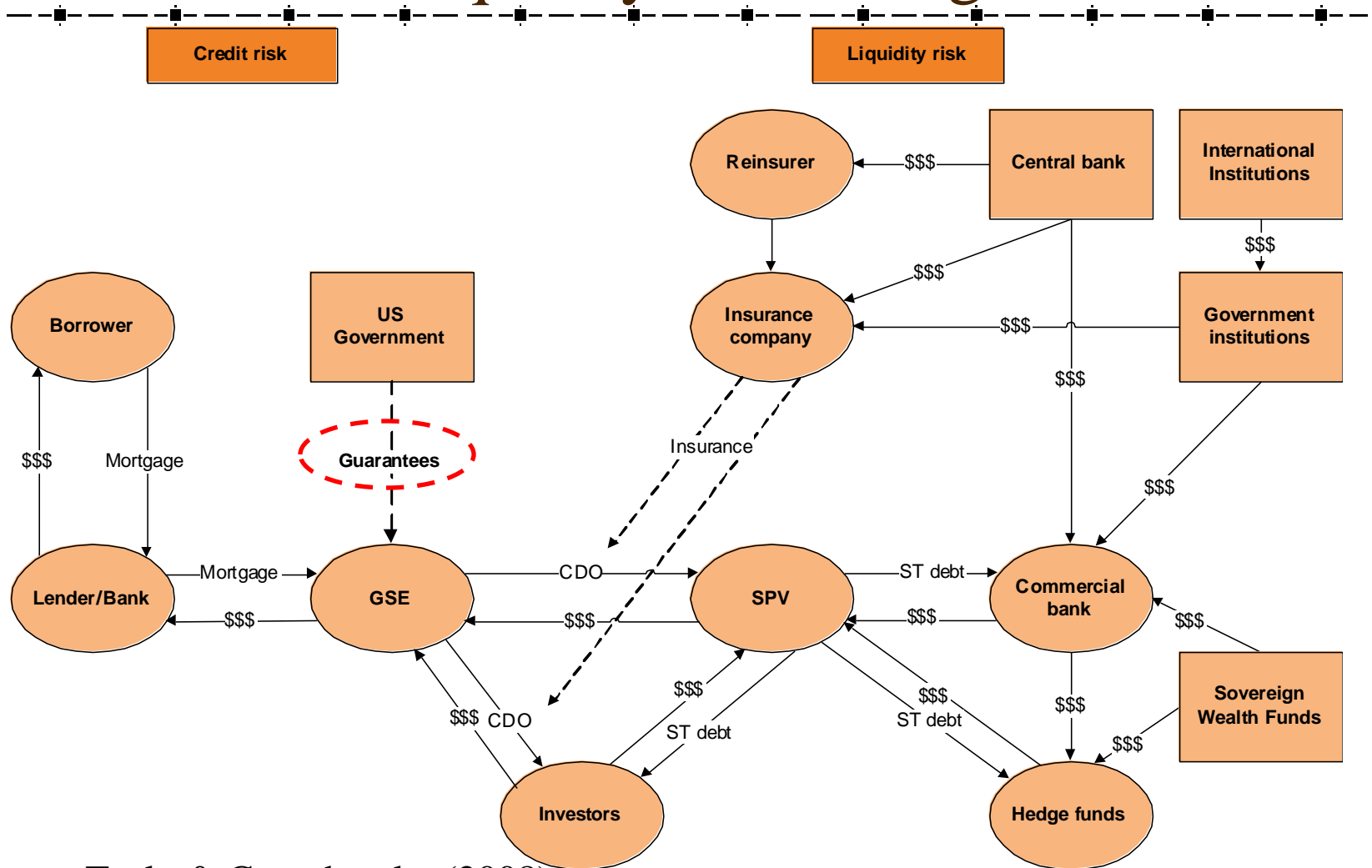
The expected impact on enterprises globally

Selected market indicators of non-financial corporations (%)



Background of the crisis

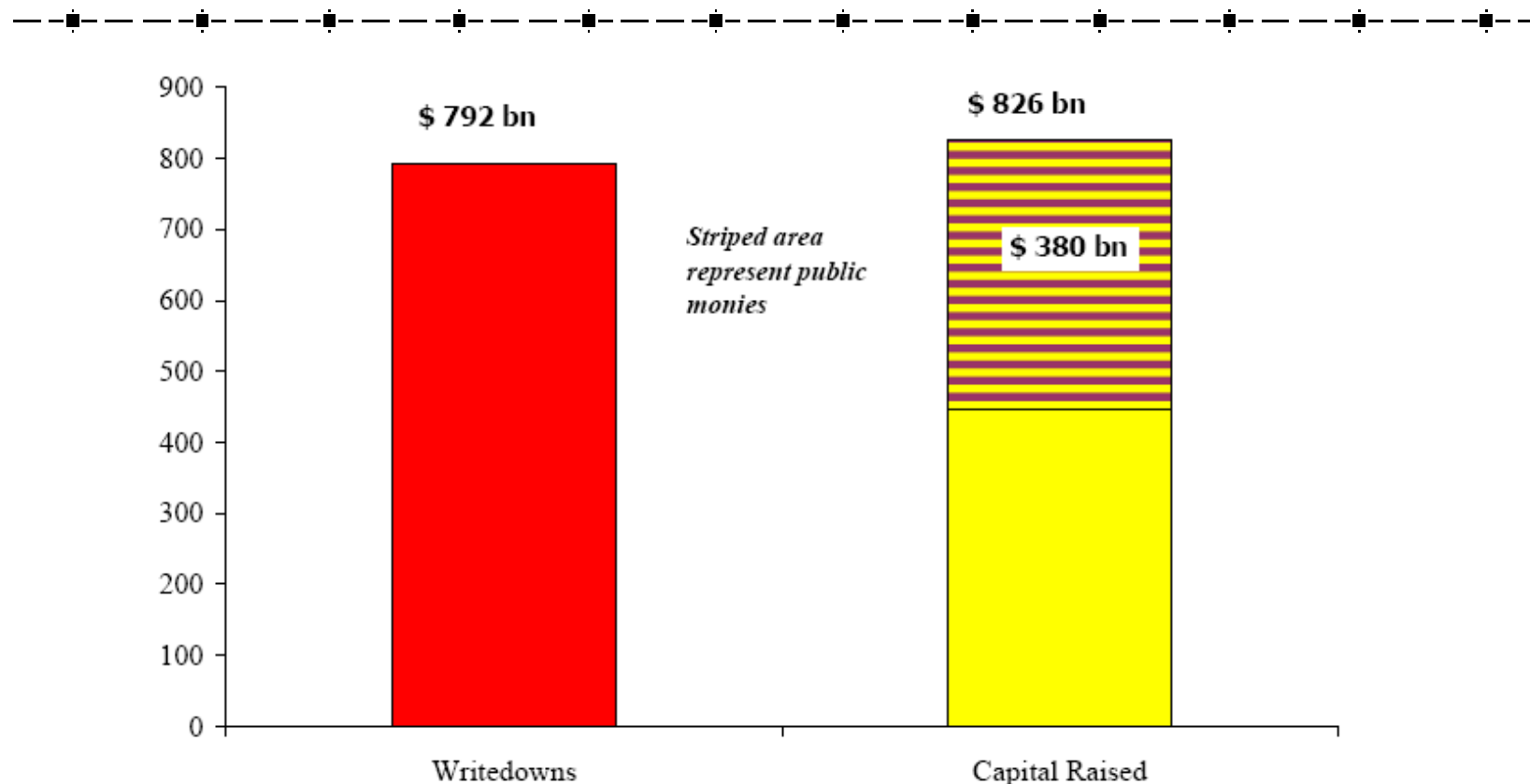
The credit and liquidity risk during the crisis



Source: Teply & Cernohorsky (2008)

Background

Bank losses (April 2009) and capital raised by January

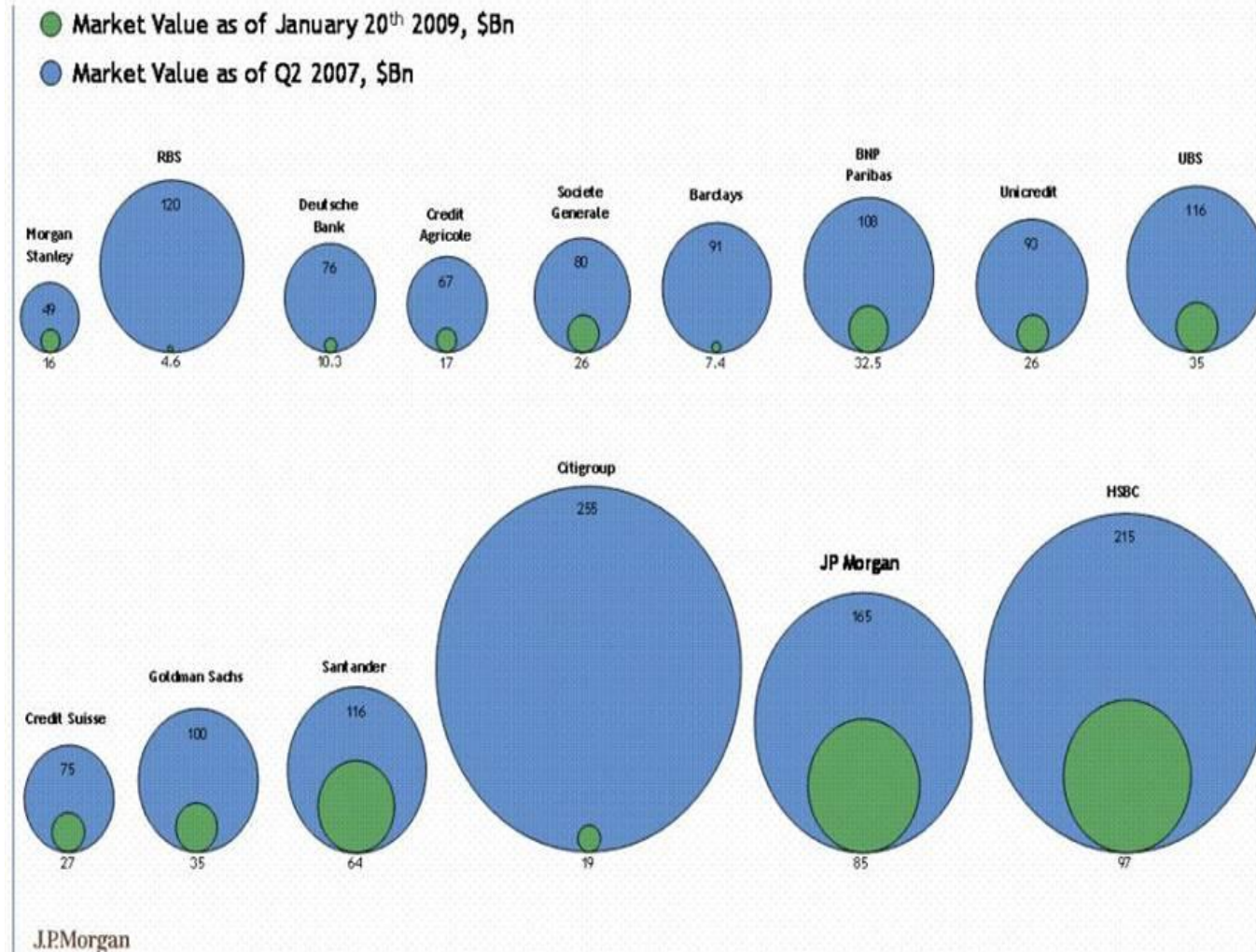


IMF – **expected losses** from the US crisis in April 2009 **USD 4.2 trillion** (in October 2008 “mere“ USD 1.4 trillion)

Background

Market value decrease (January 2009 vs. June 2007) and Top 3

Banks: Market Cap



While JPMorgan considers this information to be reliable, we cannot guarantee its accuracy or completeness

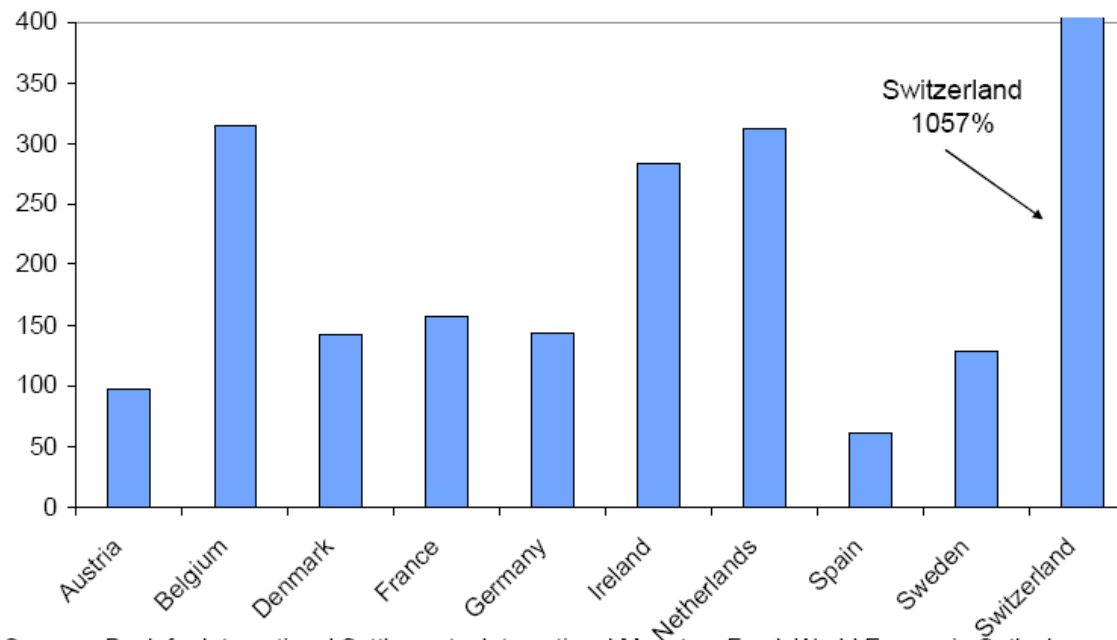
Source: Bloomberg, Jan 20th 2009

- FT March 23, 2009: Since 1999 until 2007 bank's market value stable
- Since 2007 MV shrinking
- **Increasing role of Chinese banks – Top 3 MV in March 2009**

Background

High cross-border exposure of EU banks

Figure 1.23. European Banks' Cross-Border Liabilities, end-2007
(As a percentage of GDP)



Sources: Bank for International Settlements; International Monetary Fund, World Economic Outlook database.

Contrary to convention wisdom, many EU banks are highly dependant on cross-border funding

Contents



Charles University
Faculty of Social Sciences
PRAGUE

✦ Introduction

✦ Background of the crisis

✦ Response and Consequences

✦ CEE status

✦ Conclusion



Response and Consequences

Different government responses to bank rescues as of Feb 2009

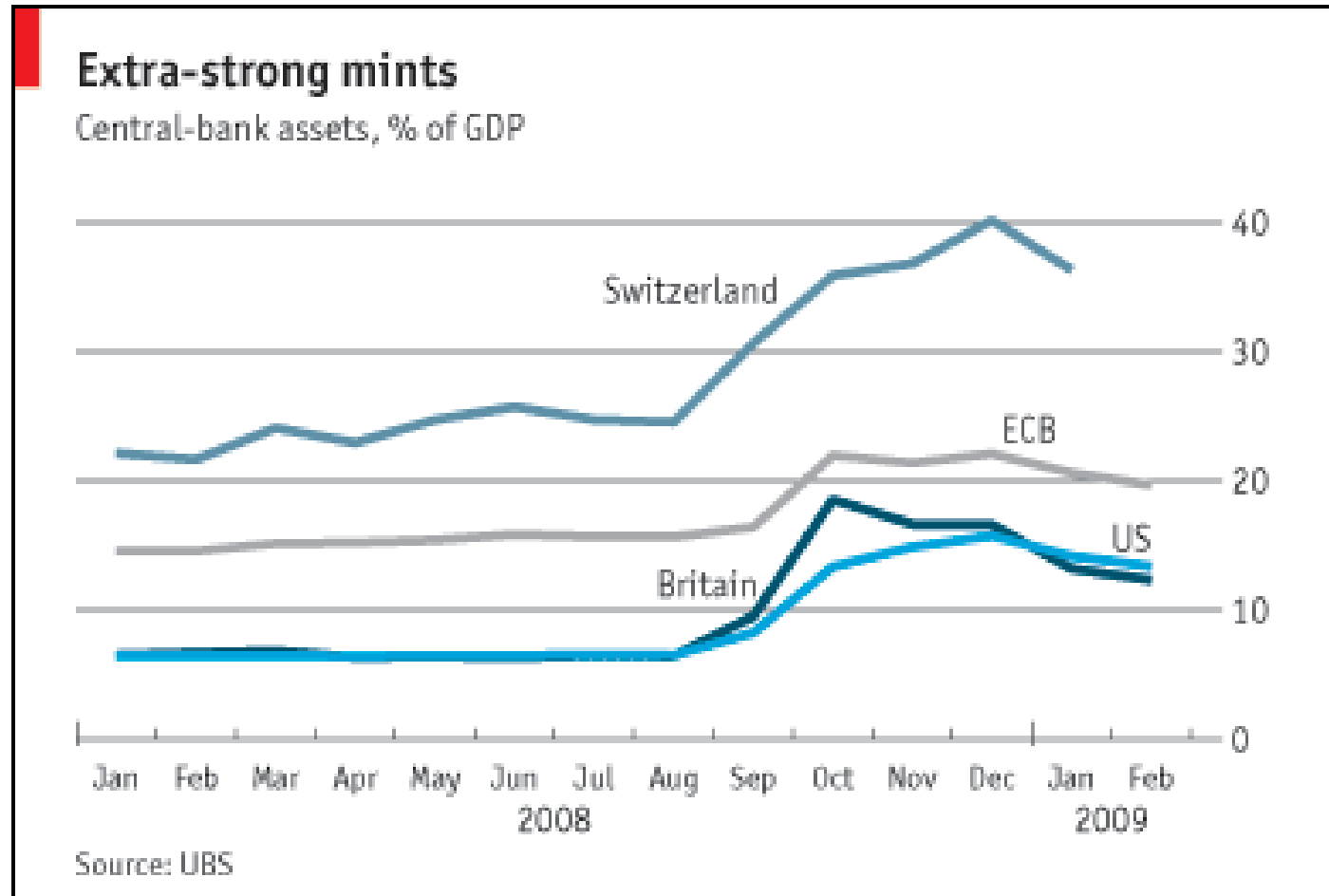
	Containment			Resolution	
	Establish, Increase or Expand Deposit Insurance	Guarantees of Wholesale Borrowing	Sternghened Liquidity Measures	Re-Capitalization Plans Established 1/	Asset Purchase Plans
Argentina			X		
Australia	X	X	X		X
Brazil			X		X
Canada		X	X		X
China			X		
France		X	X	X	
Germany	X	X	X	X	X
India			X		
Indonesia	X		X		
Italy		X	X	X	
Japan			X	X	X
Mexico		X	X		
Netherlands	X	X	X	X	
Russia	X	X	X	X	X
Saudi Arabia	X	X	X		
South Africa			X		
Spain	X	X	X		X
South Korea		X	X	X	X
Turkey			X		
United Kingdom	X	X	X	X	X
United States	X	X	X	X	X

Source: Various government announcements and information on official websites.

Source: IMF
13

Response and Consequences

High engagement of several central banks



Response and Consequences

Headline Support for the Financial Sector and Huge Upfront Financing Needs in Advanced Economies - total net costs may vary due to future assets disinvestment and loss from guarantees (As of April 15, 2009; in percent of 2008 GDP)

COUNTRY	Capital Injection (A)	Purchase of Assets and Lending by Treasury (B)	Central Bank Support Provided with Treasury Backing (C)	Liquidity Provision and Other Support by Central Bank (D)	Guarantees (excludes by deposit insurance agencies) (E)	Total (A+B+C+D+E)	Upfront government financing
USA	3,9	1,3	1,1	42,1	31,3	79,6	6,3
AT	5,3	0	0	0	30	35,3	5,3
BE	4,7	0	0	0	26,2	30,9	4,7
FR	1,2	1,3	0	0	16,4	19	1,5
DE	3,8	0,4	0	0	18	22,2	3,7
GR	2,1	3,3	0	0	6,2	11,6	5,4
IR	5,3	0	0	0	257	263	5,3
IT	1,3	0	0	2,5	0	3,8	1,3
NL	3,4	2,8	0	0	33,7	39,8	6,2
PT	2,4	0	0	0	12	14,4	2,4
ES	0	4,6	0	0	18,3	22,8	4,6
SWE	2,1	5,3	0	15,3	47,3	70	5,8
UK	3,9	13,8	12,9	0	51,2	81,8	20,2
HU	1,1	0	0	4,7	1,1	6,9	1,1
PL	0,4	0	0	0	3,2	3,6	0,4
Rus	0,3	0,5	3,2	3,2	0,5	7,7	0,8
JAP	2,4	11,3	0	1,2	7,3	22,1	0,8
G20EU	2,7	3,8	3,2	0,5	22,1	32,3	6,7
G20	1,9	2,5	1	12,4	14,3	32,1	3,4
Emerging Economies	0,2	0,1	0,4	1,6	0,1	2,4	0,1

Source: IMF, UPDATE ON FISCAL STIMULUS AND FINANCIAL SECTOR MEASURES, April 26, 2009

Response and Consequences

EU economic policy/rescues in the world context (discretionary measures only, non-discretionary automatic stabilizers excluded)

	2008	2009	2010
Argentina	0.0	1.5	...
Australia	0.7	2.1	1.7
Brazil	0.0	0.6	0.8
Canada	0.0	1.9	1.7
China	0.4	3.1	2.7
France	0.0	0.7	0.8
Germany	0.0	1.6	2.0
India 3/	0.6	0.6	0.6
Indonesia	0.0	1.3	0.6
Italy	0.0	0.2	0.1
Japan 4/	0.3	2.4	1.8
Korea	1.1	3.9	1.2
Mexico	0.0	1.5	...
Russia	0.0	4.1	1.3
Saudi Arabia	2.4	3.3	3.5
South Africa 3/ 5/	1.7	1.8	-0.6
Turkey 6/	0.0	0.8	0.3
United Kingdom	0.2	1.4	-0.1
United States 7/	1.1	2.0	1.8
G-20 PPP-GDP weighted average	0.5	2.0	1.5
G-20 discretionary impulse 8/	0.5	1.5	-0.5

■ Different stimulus for different countries to improve real economy and bank portfolios...

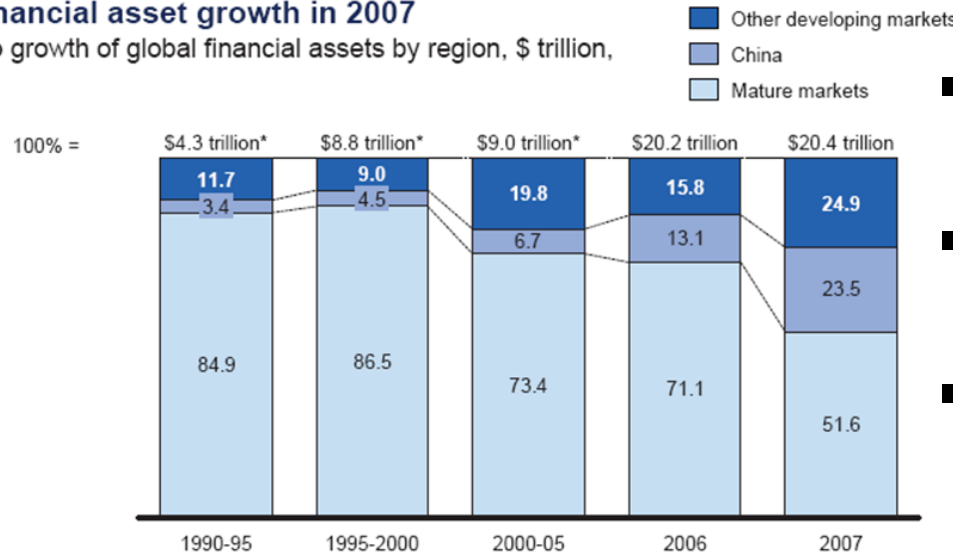
■ Dependant on public debt/GDP ratio...

Consequences – where to borrow ?

Change in global financial assets' structure

Developing markets contributed almost half of global financial asset growth in 2007

Contribution to growth of global financial assets by region, \$ trillion, Percent



Developing market share (incl. China) of global financial assets Percent	5.6	8.6	12.6	16.2	19.5
Developing markets' financial assets \$ trillion	3.2*	8.0*	16.2*	28.4	38.3

Note: Some numbers do not sum due to rounding. All figures expressed in 2007 exchange rates.

* Average data for each 5-year period.

Source: McKinsey Global Institute Global Financial Assets Database

- Wealth shift due to trade
- Shift of savings and loan providers
- Increasing role of developing countries/China and G20
- ? Attractiveness - competing USD vs. Eurozone features for investment

Source: McKinsey (2008)

Contents



Charles University
Faculty of Social Sciences
PRAGUE

✧ Introduction

✧ Background of the crisis

✧ Response and Consequences

✧ CEE status

✧ Conclusion

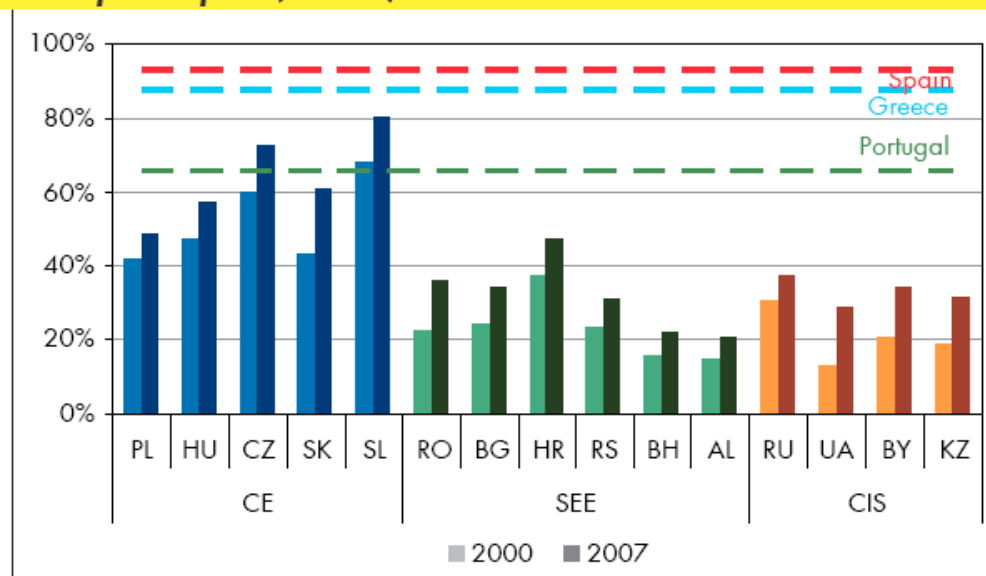


CEE status

Heterogeneous CEE exposure:

Stormy times also for some (!) CEE economies

GDP per capita (at PPP)



Per cent of the EU-15 average

Source: Thomson Financial Datastream, wiiw, Raiffeisen RESEARCH

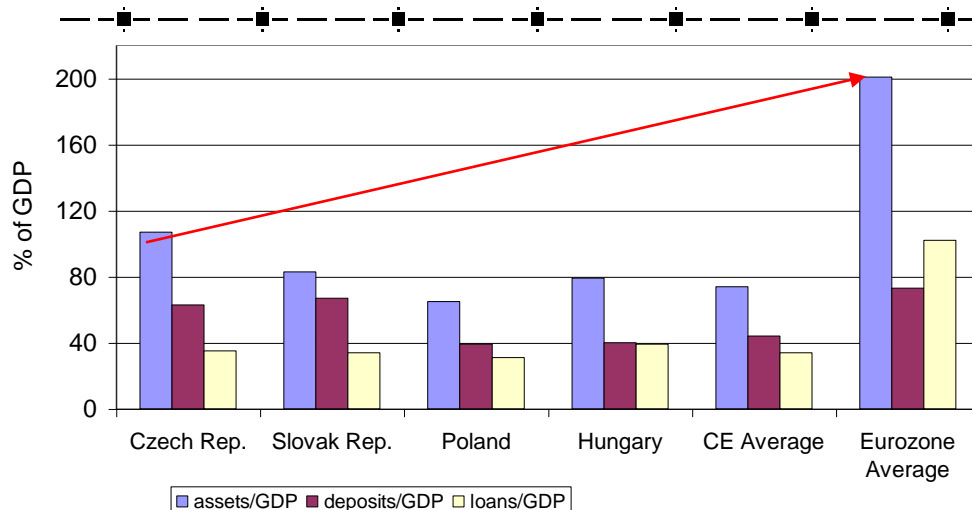
After rapid catch-up...
current-account balances in
deficits...

...and costly foreign debt...
exposed small currencies to the
depreciation

CEE status - Czech case



Significantly smaller CEE financial intermediation level especially for households (but growing)

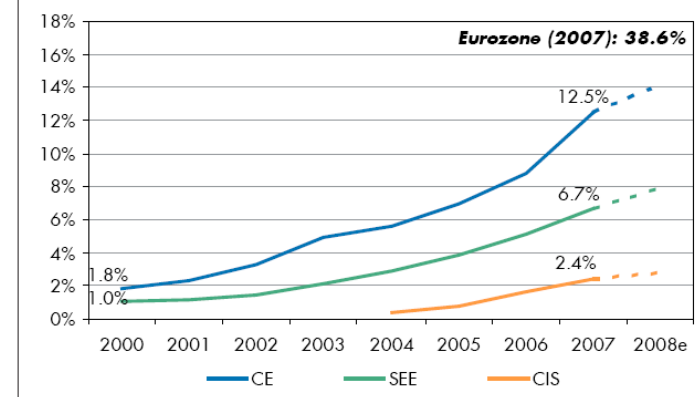


Quite different ratio of deposits to credits in CEE and Euro zone...

And somewhat conservative approach of banks

Source: Mejstřík, Pečená, Teplý (2008)

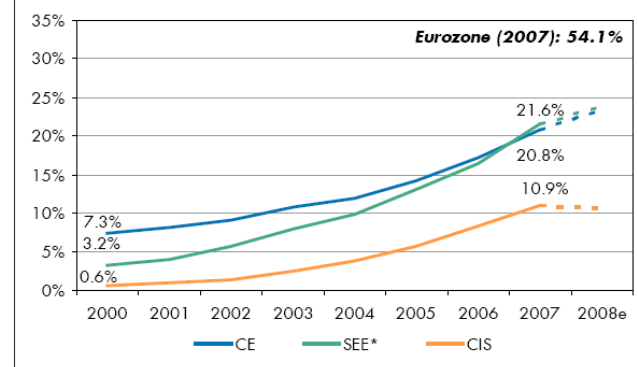
Mortgage loans



Per cent of GDP

Source: ECB, local central banks, Raiffeisen RESEARCH

Loans to households



Per cent of GDP

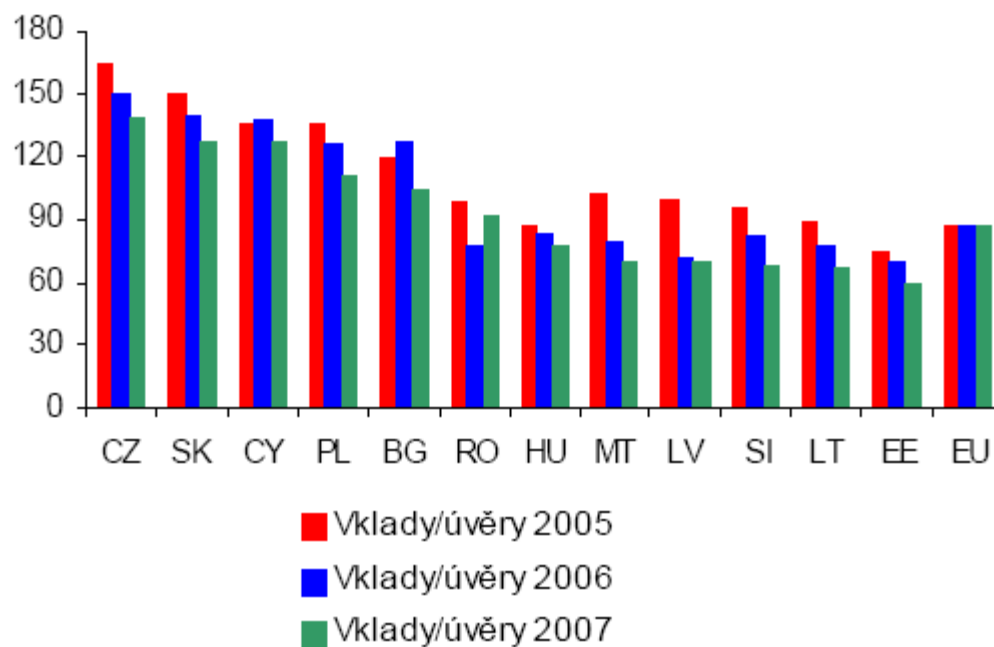
* excluding Kosovo

Source: ECB, local central banks, Raiffeisen RESEARCH

Source: RB CEE Banking Report 2008

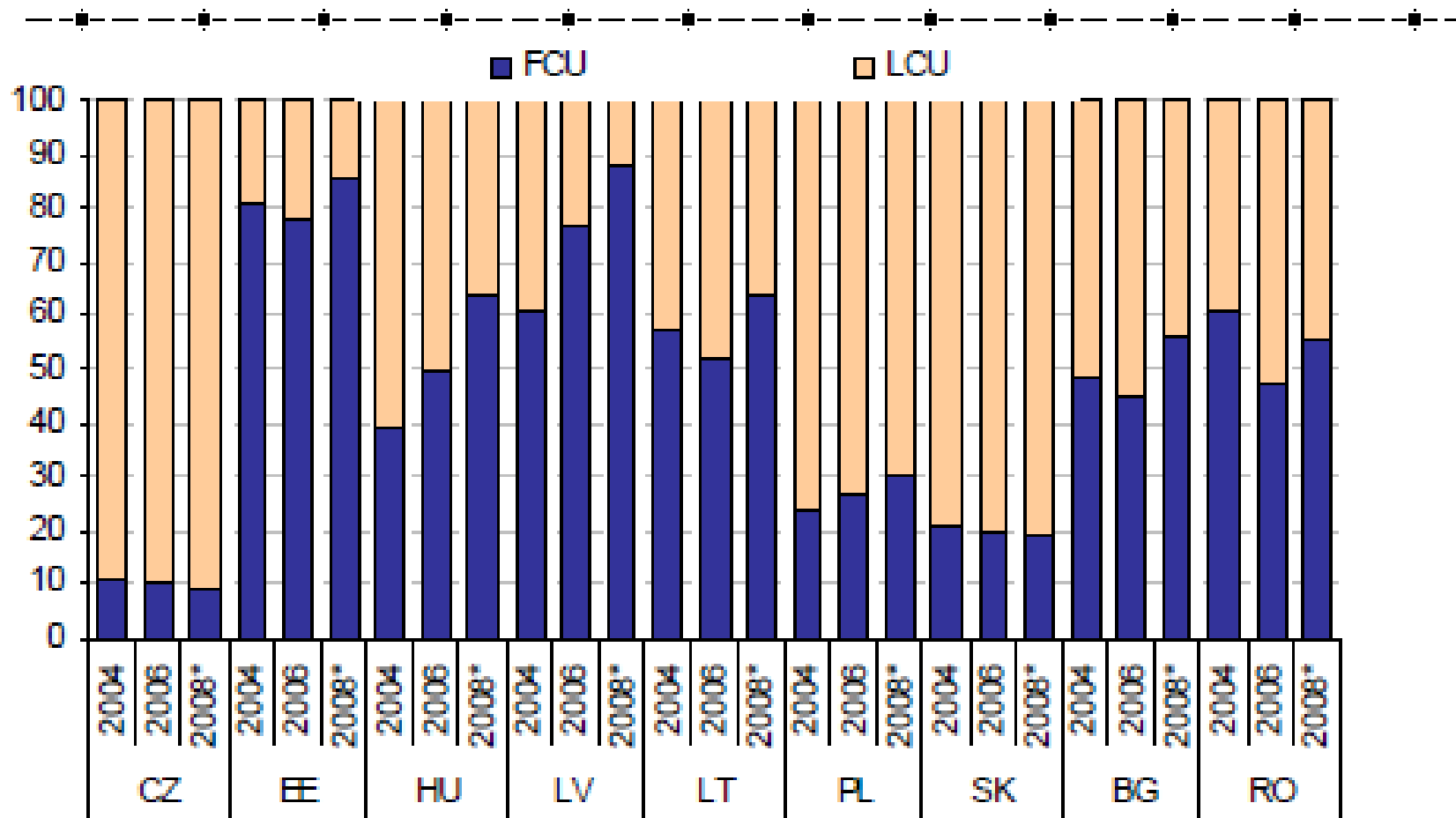
CEE status

- Ratio of deposits and loans in new member states (2005-7, v %, *Source : ECB*)



Pramen: ECB

Share of FX Denominated Bank Loans in Loans to the Private Sector (%)



Source: World Bank

CEE heterogeneous status – Case study

- In several countries borrowings in foreign currencies seemed to be „cheaper“ and FX risk was neglected by debtors (state, households, enterprises)
- But **country-specific risk due to** current account deficits, foreign exchange indebtedness, fragile national CEE currencies...CEE bank exposure to foreign currency risk has grown then, risk premium has increased
- **Danger of „quasi-homogeneous CEE “ risk bias** to detriment of less-risky countries such as Czech Republic

...and what about the CDS and opinion
of rating agencies on CEE?



CEE status

Key Message from Moody's

Europe, and in particular Central and Eastern Europe, is not a homogeneous region. The scale of the challenges faced by all countries is currently limited, but liquidity risk could aggravate them.

Countries	<u>Speed of financial deepening:</u> growth in % of domestic credit to GDP ratio 2000-07 period	<u>Reliance on external funding:</u> external debt growth in % 2000-07 period	<u>Macroeconomic imbalances:</u> Current account deficit + fiscal deficit or surplus (%of GDP)	
			FY2000	FY2007
Latvia (Baa1)	307.2	120.0	-7.4	-23.9
Lithuania (A2)	297.2	70.2	-9.1	-15.9
Bulgaria (Baa3)	232.3	12.4	-6.6	-18.0
Estonia (A1)	172.6	112.2	-5.6	-15.3
Romania (Baa3)	155.5	43.2	-7.6	-16.6
Croatia (Baa3)	75.5	35.1	-8.2	-10.3
Hungary (A3)	39.0	65.2	-11.4	-9.8
Poland (A2)	33.9	24.3	-9.0	-6.8
Czech Republic (A1)	6.9	11.7	-8.4	-3.6
Slovakia (A1)	-9.1	11.1	-15.7	-7.2

CEE status

Different positions of different CEE countries

Fourteen ways to slowdown

*In euro area
Pegged to euro*

Country	GDP per person*	S&P sovereign rating†	Financing requirements % of GDP‡	Exports§	In a nutshell
Belarus	12,344	B+	7.3	62.1	Autocratic, isolated, gained surprise IMF bail-out
<i>Bulgaria</i>	12,372	BBB	29.4	61.0	Strong finances back currency peg, but sleaze rampant
Czech Rep.	25,757	A	9.4	80.1	Thrifty and solid, but hit by export slowdown
<i>Estonia</i>	20,754	A	20.0	72.0	Star reformer squeezes spending to stay afloat
Hungary	19,830	BBB	29.9	80.2	Currency crash could topple debt-heavy economy
<i>Latvia</i>	17,801	BB+	24.3	46.6	Clinging to currency peg amid turmoil and downturn
<i>Lithuania</i>	18,855	BBB+	27.1	59.0	Painful spending squeeze to avoid worse
Poland	17,560	A-	13.2	42.3	Regional heavyweight speeds up euro bid
Romania	12,698	BB+	20.2	34.4	Spendthrift policies meet sober reality
Russia	16,161	BBB	2.2	31.7	Energy-based kleptocracy in denial about crisis
Serbia	10,911	BB-	23.5	22.2	Seeking more IMF help
<i>Slovakia</i>	22,242	A+	12.5	90.5	Smugly in euro area but hit by car-factory slowdown
<i>Slovenia</i>	28,894	AA	–	70.5	Self-satisfied, rich and still growing
Ukraine	7,634	CCC+	16.1	45.0	No end in sight to political and economic chaos

* PPP\$, 2008 estimate † Standard & Poor's sovereign foreign currency ratings, long-term ‡ Current-account balance, principal due on public and private debts plus IMF debits, 2008 estimate § Goods and services, % of GDP, 2008 estimate

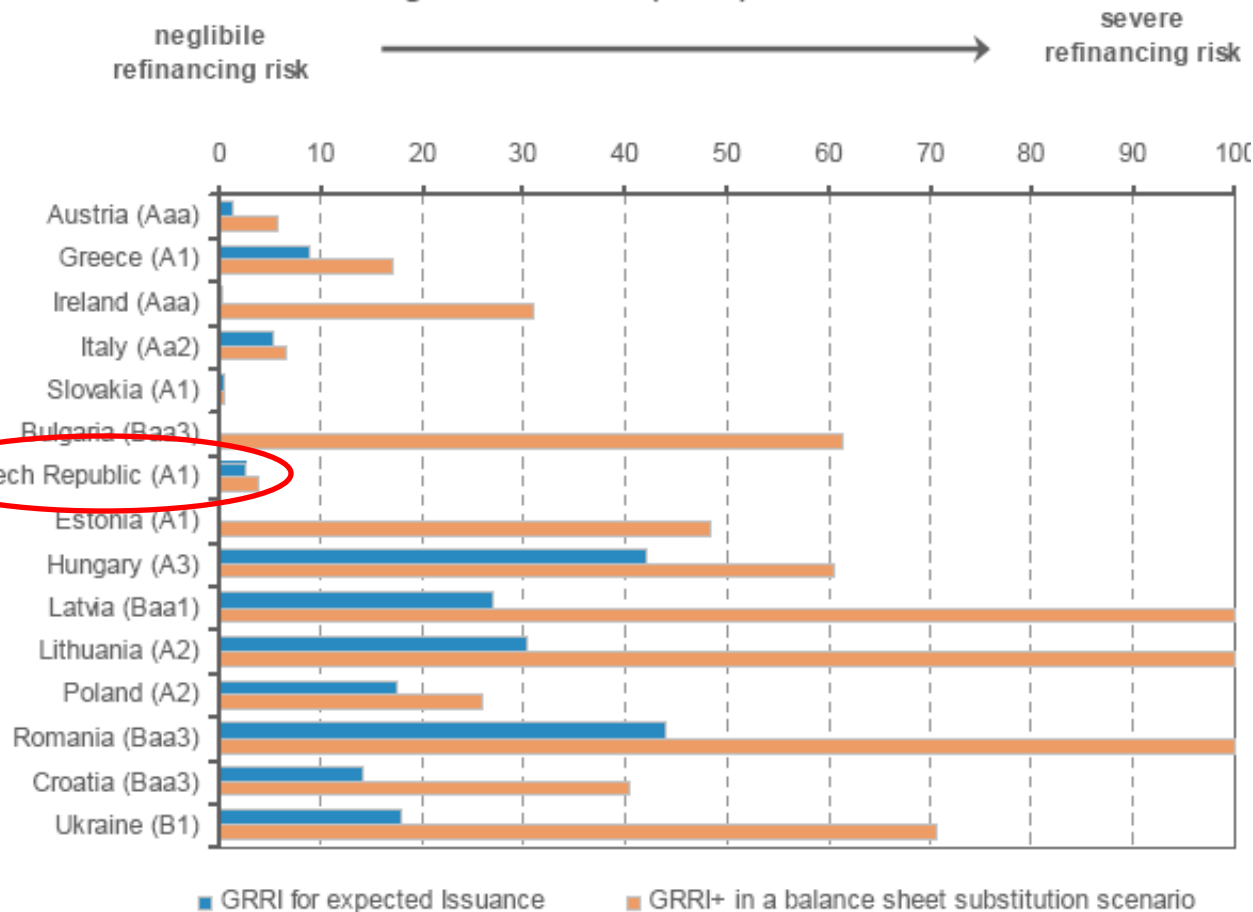
Sources: IMF; Standard & Poor's; Economist Intelligence Unit; *The Economist*



CEE status

Key Message from Moody's

Government Refinancing Risk Indicator (GRRRI)*



Interpretation:
Moody's classifies risk levels below 20 as "very low", higher than 20 as "low", above 40 as "significant" and above 70 as "considerable".

CEE status

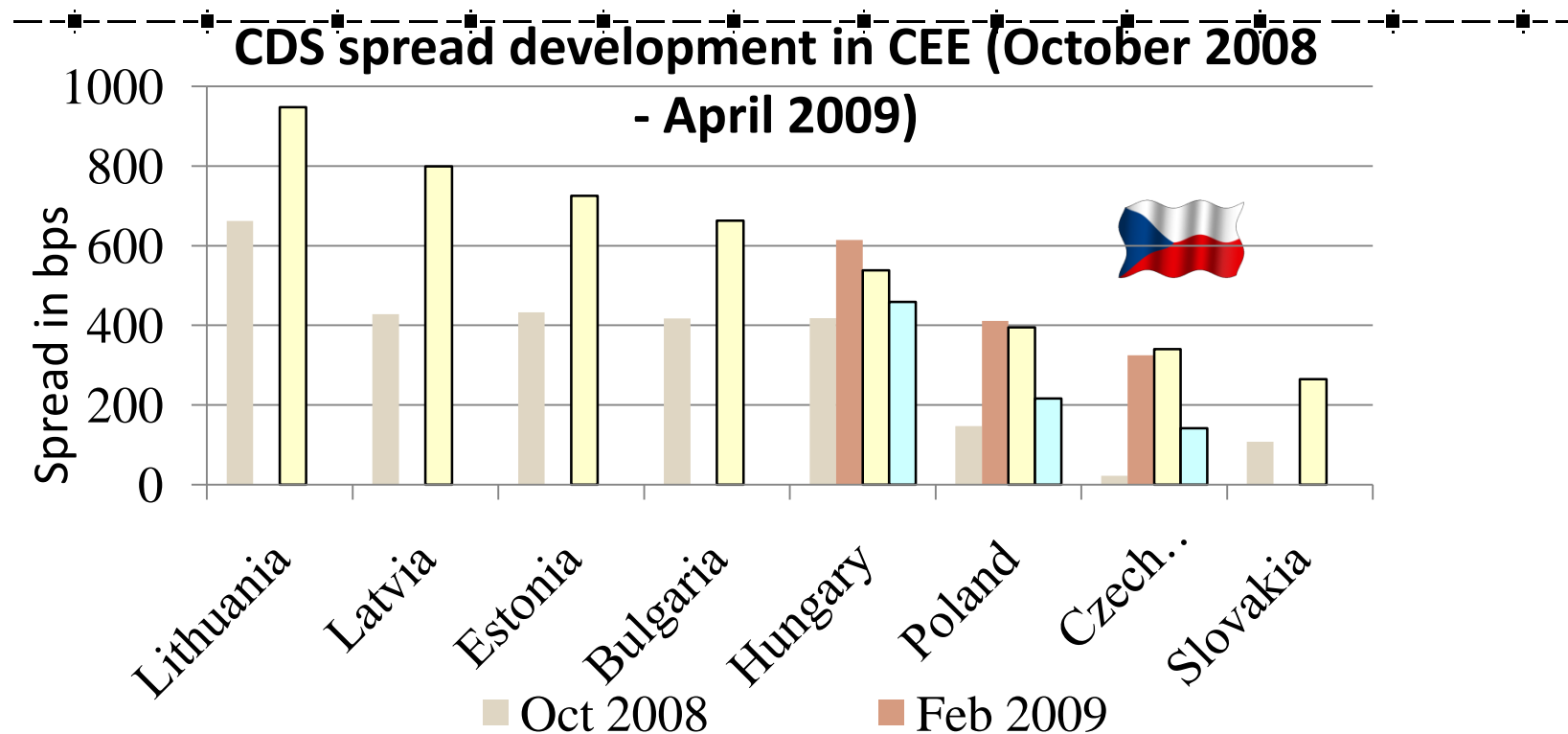
...implying different risk premiums (CDS)



Source: Bloomberg

CEE status

Country sovereign risk expressed imperfectly by CDS



Zdroj: Bloomberg

...lower risk for the CR but fragile

Consequences

Government bailouts of banks

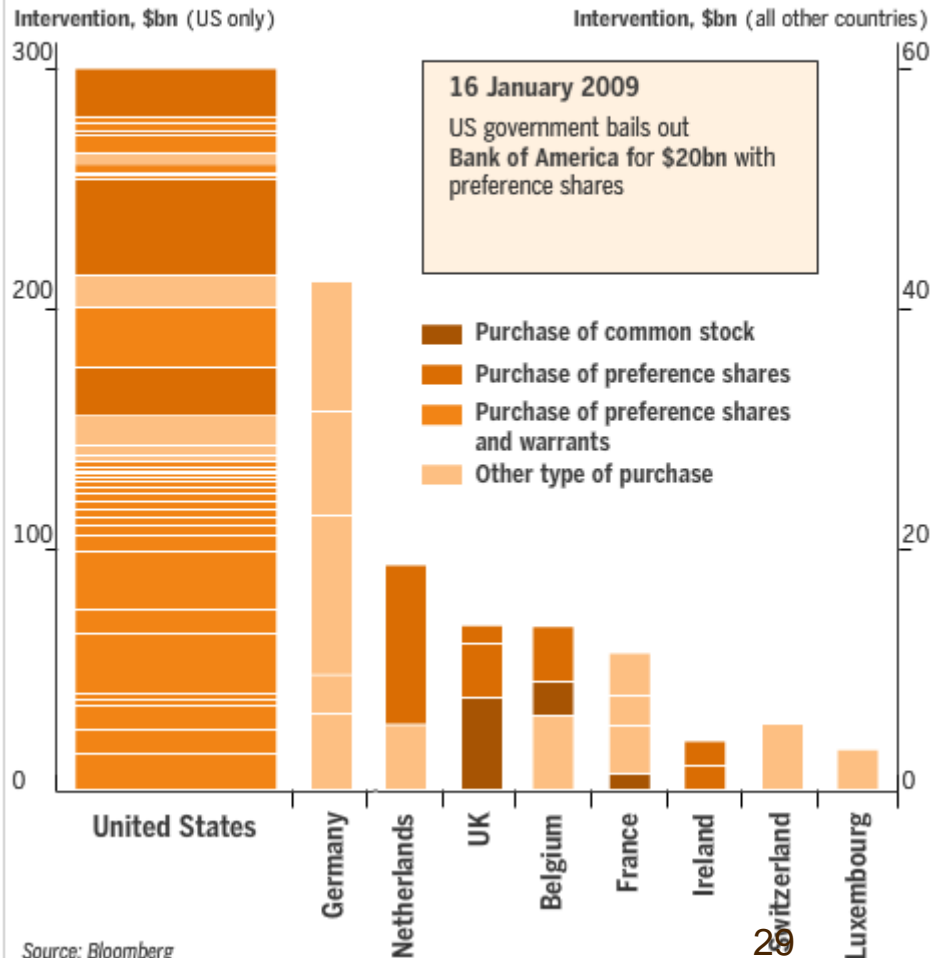
...only few OECD countries have not supported their banks

1. Czech Republic
2. Slovakia

Very few toxic assets in the balance sheets
But secondary impact on portfolio ?

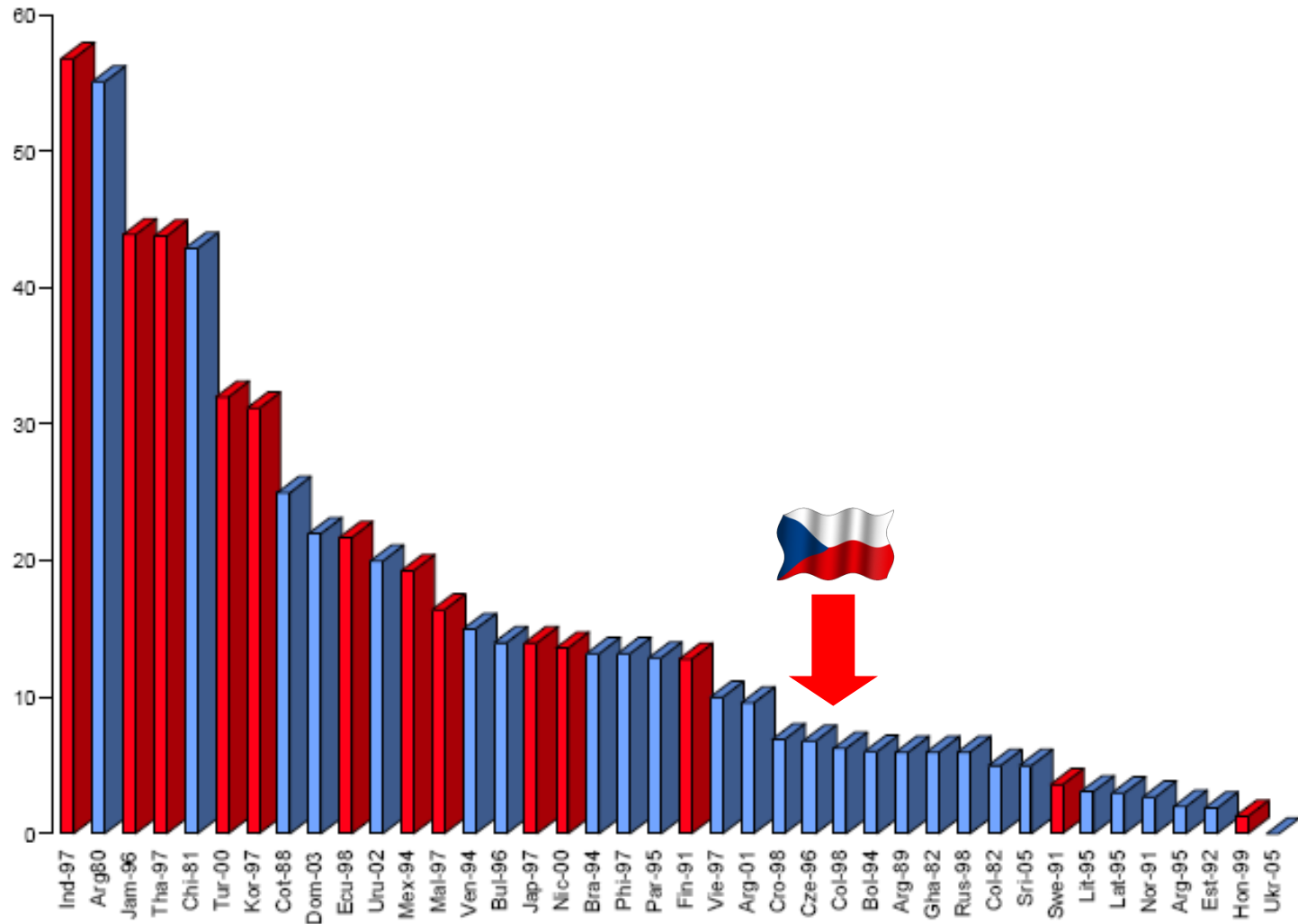
Source: Bloomberg

Each coloured block represents one government intervention at a bank. Chart shows interventions >\$1bn in date order since the collapse of Lehmans. The area of each block represents the size of the intervention. Hover over the chart to see more.



Consequences

Past crises costs of % GDP

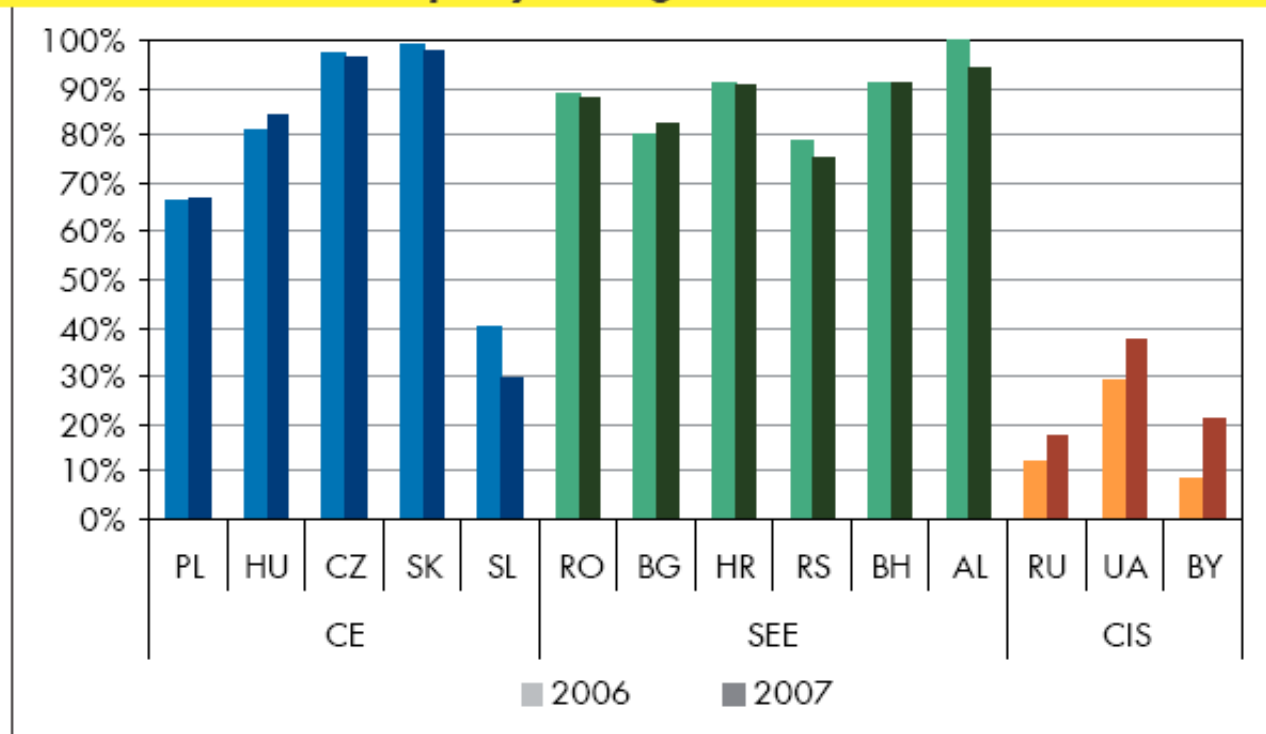


Source: Laeven and Valencia (2008).

CEE status

...bank ownership out of control of CEE

Market share of majority foreign-owned banks



Per cent of total banking assets

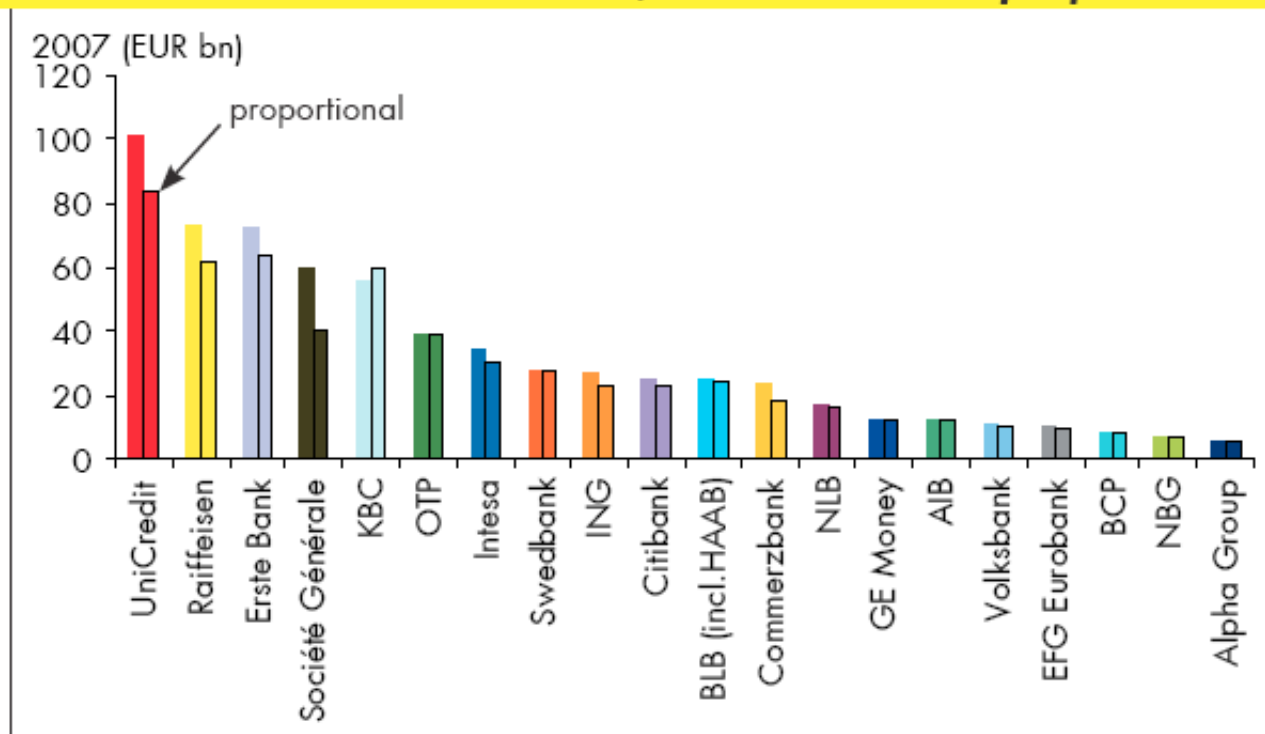
Source: Local central banks, Raiffeisen RESEARCH

Source: CEE Banking Sector Report, Raiffeisenbank, 09/2008

CEE status

Key owners of CEE Banks

Total assets of int. banks in CEE, consolidated vs. proportional



UniCredit excl. Capitalia

Source: Company data, local central banks

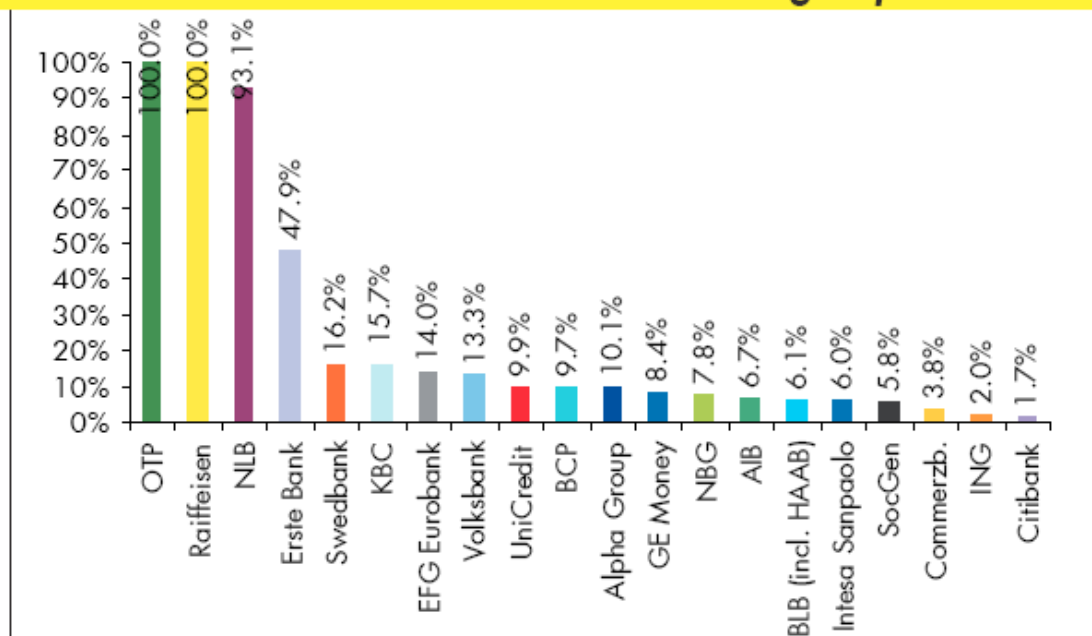
Source: CEE Banking Sector Report, Raiffeisenbank, 09/2008

Slide 33

CEE status

Foreign owners are purely regional consolidators

Share of assets of CEE subsidiaries in % of group assets



Data as of Dec 2007, representing ownership structure as of September 2008 Source: Company data, local central banks

Source: CEE Banking Sector Report, Raiffeisenbank, 09/2008

Originally both globally & EU highly integrated banks accountable to their EU & global shareholders ...but **many parent banks** received state preferred equity – in fact partially **nationalized**

CEE bank exposure to global banks is limited...

CEE heterogeneous bank and country status

„Parent by parent“ exposed to CEE specific country/bank risks...

Market presence¹ and branch networks

2008	PL	HU	CZ	SK	SI	ES	LT	LI	BG	RO	HR	AL	RS	MO	BH	KO	MC	BY	RU	UA	AZ	AM	GE	No. of countries	No. of outlets ²
Raiffeisen International	115	148	108	159	15				179	47	67	100	93		96	44		90	246	1144				15	3077
UniCredit	1058	81	56	95	14	1	2	3	263	136	145		53		169				73	569	140			16	2858
Société Générale	270		389		58				132	830	113	36	89	22			19		648	14		74	33	14	2727
Erste Bank		197	636	273						562	115		61							71				7	1915
IntesaSanpaolo		140		247	46					57	228	34	216		48				61	580				10	1657
OTP		408		90					375	104	100		100	34					158	158				9	1527
KBC	389	206	251	172					126				43						52					7	1239
EFG	297								260	287			128							146				5	1118
GE Money ³	405	65	150	60			35			25									41					7	781
National Bank of Greece									229	128		25	204				61							5	647
ING	415	2	1	1					2	144									n.a.	1				8	566
Volkswagen		59	54	48	10					230	24		21		49					50				9	545
NLB					215				1				120	17	109	34	37							7	533
Swedbank/Hansab						94	77	128											3	191				5	493
BLB / Hypo Group		209			14						69		41	7	87									6	427
Commerzbank	107	11	5	2															n.a.	301				6	426
Alpha Bank									88	151		26	130				18			11				6	424
Citigroup	237	38	11	11					1	8									60	1				8	367

¹ Majority stakes only, data as at 31 December 2007, reflecting current ownership structure

² Data as at 30 June 2008

³ Incl. 200 BPH branches in PL

Source: Company data

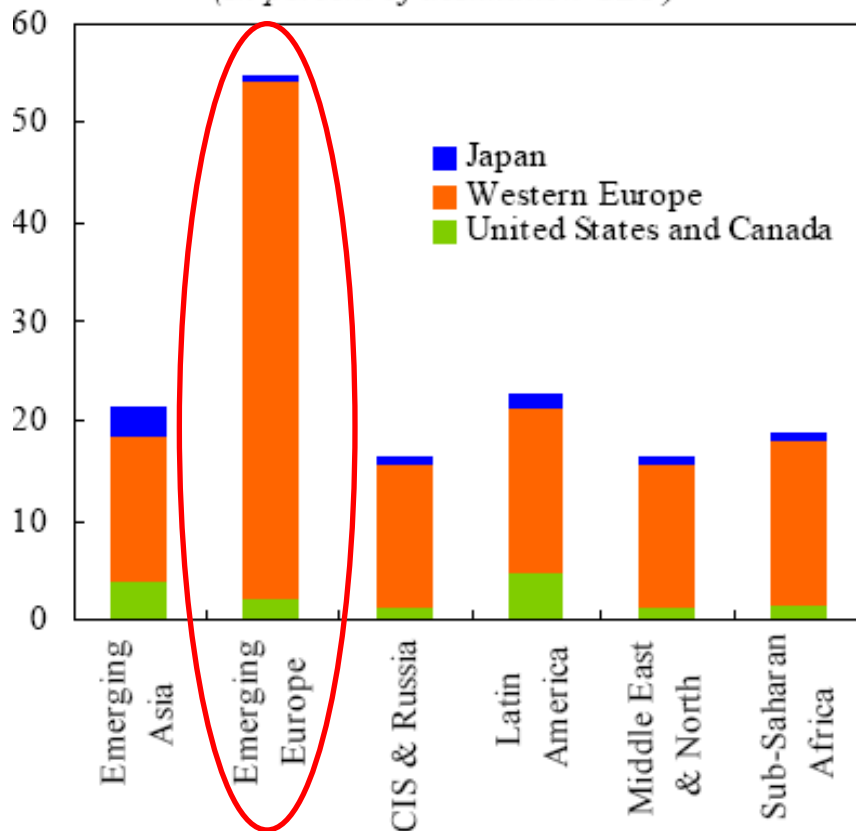
Risky countries/subsidiaries add-up in different bank portfolios. What response?

CEE status

CEE banks dependant on Western Europe and vice versa

Liabilities to Advanced Economies' Banks 2007

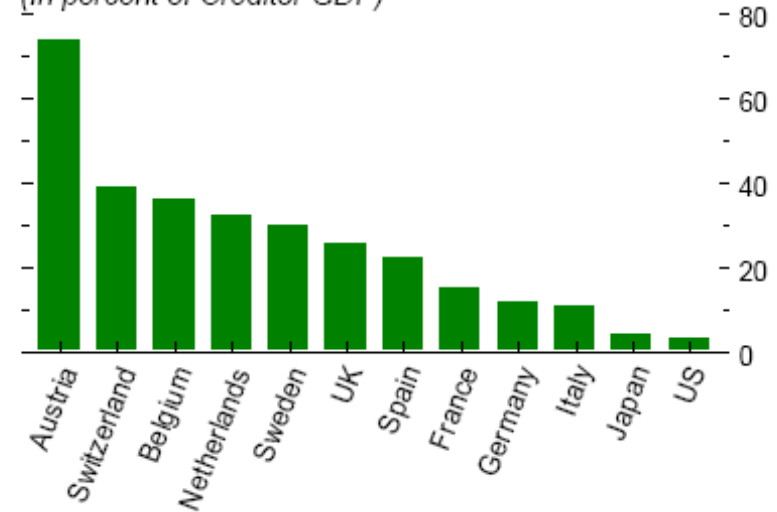
(In percent of destination GDP)



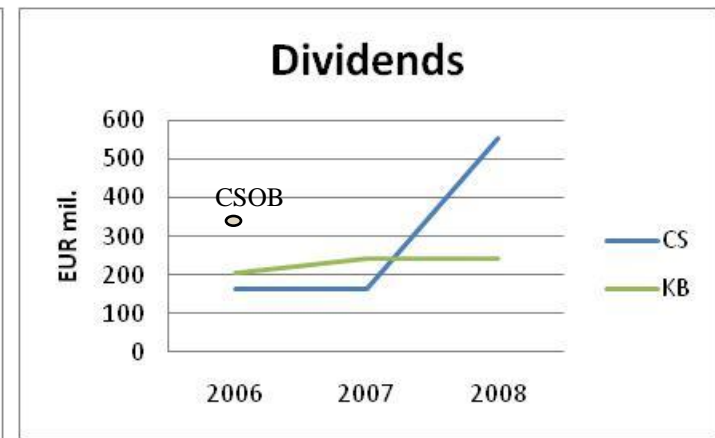
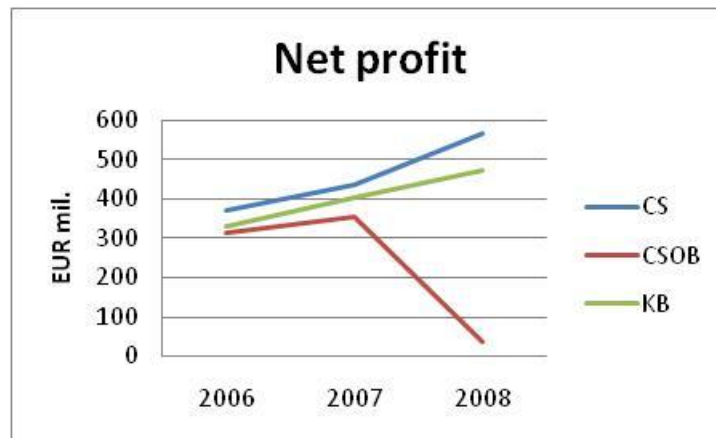
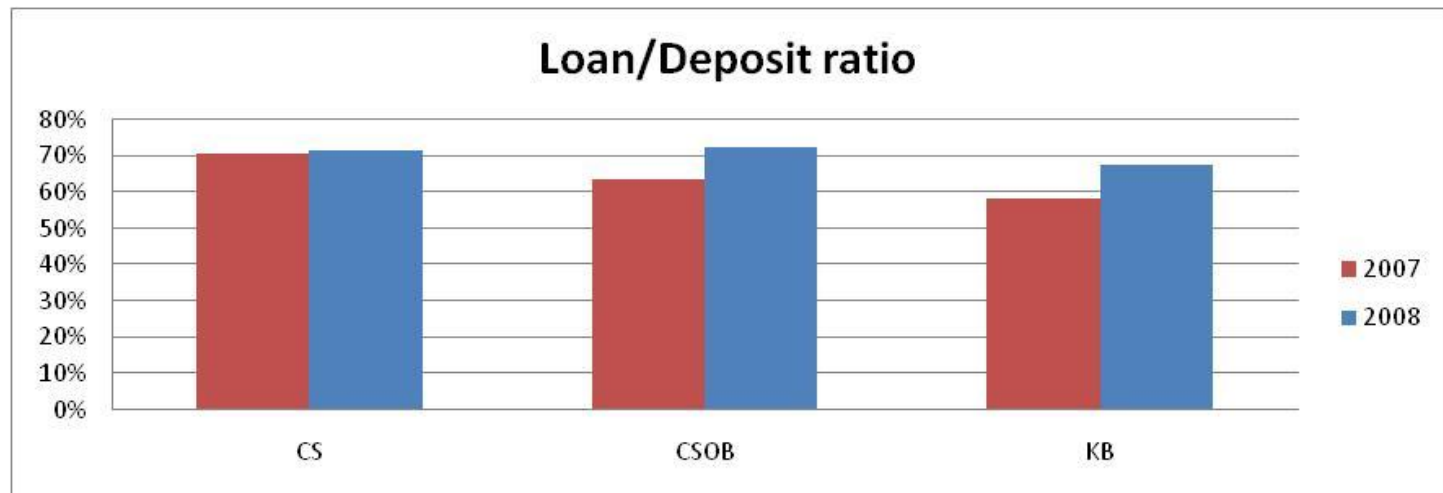
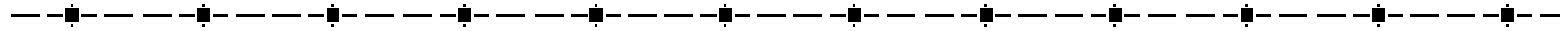
Source: IMF

Claims on Emerging Markets by BIS Reporting Banks, September 2008

(In percent of Creditor GDP)



Leading Czech Banks are in a good financial shape so their parents repatriate profits



Source: Banks' reports

CEE status



Financial Supervision and Regulation in the CR (past)

Passive financial regulation and supervision

-
- Inexperienced staff
 - Liberal licensing policy
 - Regulation and supervision only for banks
 - Regulatory Failure of Basel I for the Czech environment -> flat 20 % risk weights for credits to any OECD member country bank, including weak domestic banks

Difficult situation/high challenge
for Czech regulators in early 1990s

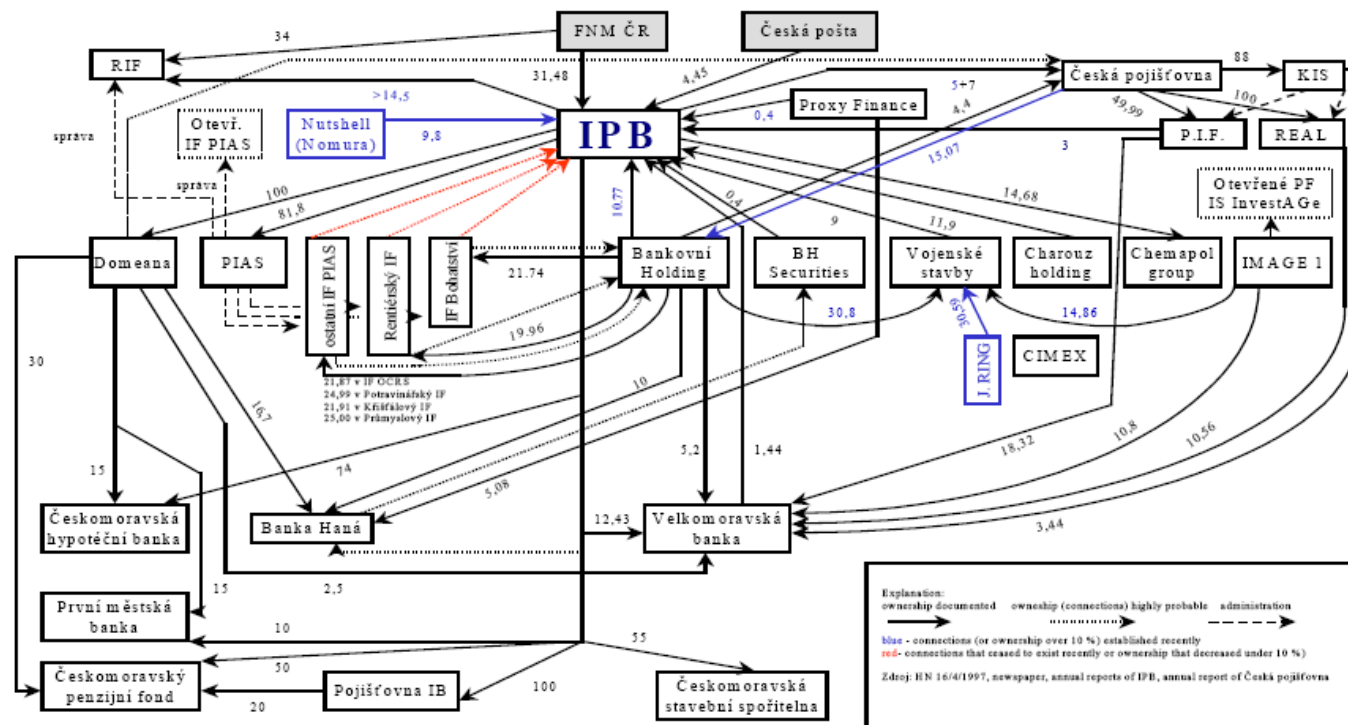


CEE status

Financial Supervision and Regulation in the CR (past)

Ad hoc supervision on unconsolidated basis

Ownership Structure of IPB Bank (1997)



Source: Chmelik, 1997

Emergence of Opaque Financial Groups...

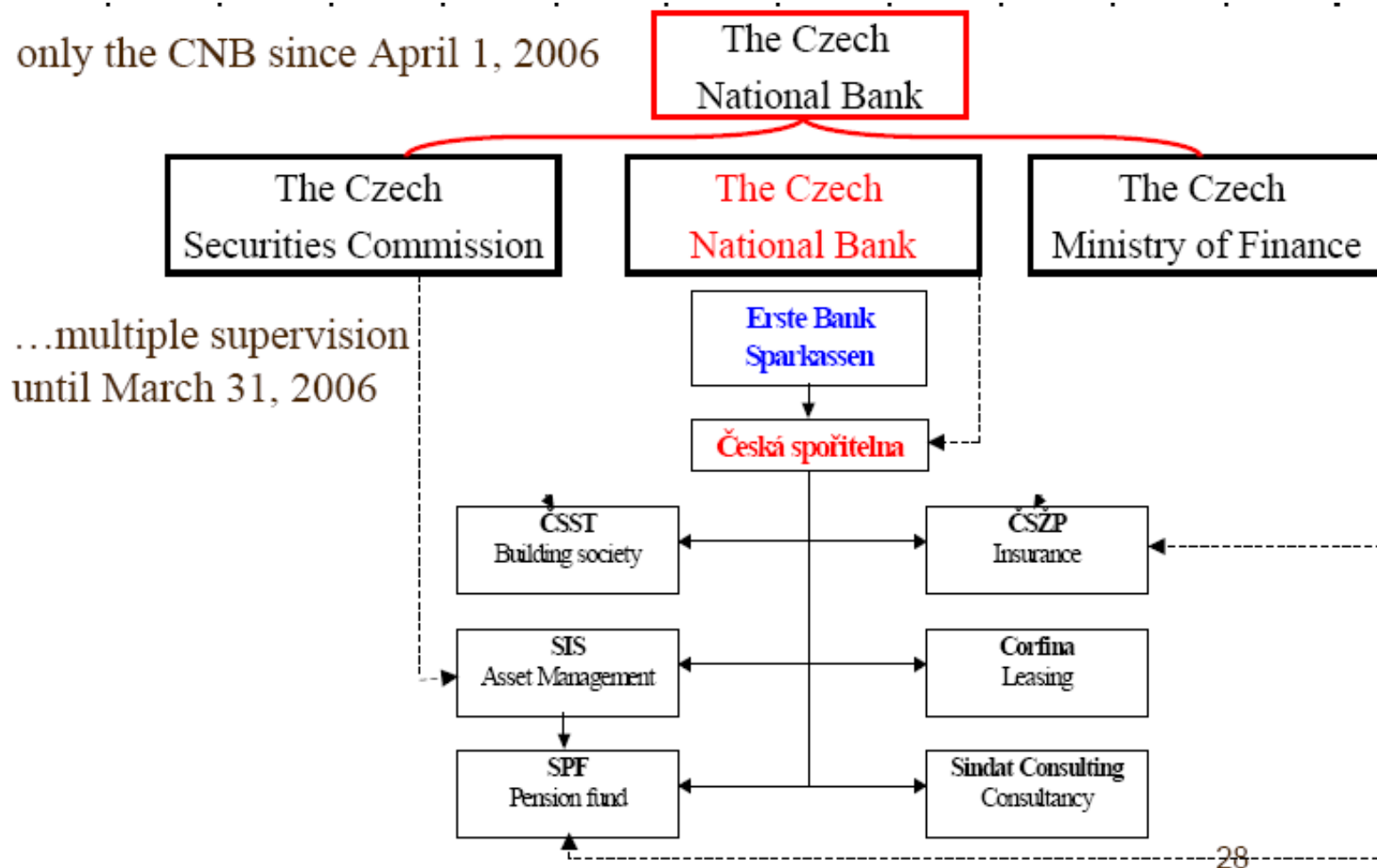
CEE status



Financial Supervision and Regulation in the CR (past)

Supervision on Consolidated Basis

only the CNB since April 1, 2006



CEE status



Financial Supervision and Regulation in the CR (now)

... still triple supervision of some Czech banks ...

1. CNB Supervision (Host supervision)
2. Internal Erste Bank Supervision
3. Austrian Supervision of Erste Bank and its subs
(Home supervision)



What about Super-regulators in the US and EU???

EU de Larosiére report...

International colleges

CEE status



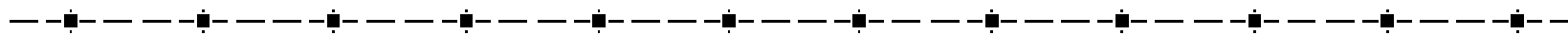
Financial Supervision and Regulation in the CR (now)
consolidated financial regulation and supervision

-
- Regulation and supervision for all financial bodies
 - **EU FASP ,**
 - **IMF and WB Financial Sector Assessment Program (FSAP) of the CR 2000 - 2002; OK**
 - **The Lamfalussy Report;**
 - De Larosiere report and EU New challenges

Difficult split of rights and responsibilities of
home-host- EU ? regulators

CEE status

General problems Financial Supervision and Regulation



- **Enforcement failed due to both supervisors and failure of selfregulation** – proper law should be supervised and enforced rather than generate further set of legislation. CEE experience...
- **Minimal moral hazard.** Shareholders and governments should bear the consequences of their own past decisions. This is especially important in the today's very diverse situation of both individual banks (banking groups) and national economies. More prudent players should not be levied the same costs as bigger risk takers. Economically and financially more stable countries should not carry the same costs as countries with riskier and more unbalanced economic policies in the recent past.

Detail issues in BASEL II in transition economies (1)

- ✧ The more information transparency is provided to the market by bank, the more advanced and independent approaches to measuring capital adequacy (e.g. internal rating models) are allowed, because the regulation then relies to a larger extent on market discipline, monitoring leaders, and the rule of law. Besides adopting benchmarking standardized approaches, banks are motivated to creatively develop and integrate their own, originally internal methods (e.g. IRB methods). A key part for NBCA is *the responsibility taken by supervisors when evaluating the processes and (back-, stress-) testing the methods adopted. This is very much different and more demanding role from the previous situation especially in transition economies such as Eastern Europe , Vietnam,...*
- ✧ At the same time, *regulator accepts the burden of responsibility for decision-making (and implicit unspecified guarantee), understanding that regulated entities cannot survive if they invest in risk-free assets only.* The very substance of financial intermediaries one can find also in optimal monitoring and management of risk asset portfolio in order to maximize their risk-adjusted profits within existing environment and funds. This modern regulatory design has incorporated institutions (rules, organization of supervision) as a framework for real economic life of financial intermediaries based upon the existence and management of inevitable risk within stochastic world. *It should generate only reasonable costs of regulation without excessive capital requirements.*
- ✧ Without going into technical details, one can question at least three open points. First, in contrast to previous BCA concept, the NBCA regulator relies both upon unbiased data flow but also upon unbiased processes and methods that are safeguarded by the longer assessment periods. In interactive situation when regulator regulates the regulated entity based upon its internal data, process and internal methods submission, the issue of asymmetric information (known from off-site supervision) does not disappear. Just the opposite might be true (e.g. controversial approval of parameters' changes of already approved internal model), requiring additional regulatory sources and costs.

Detail issues in BASEL II in transition economies (2)

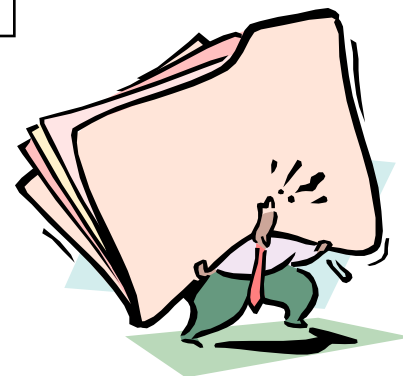
- ✧ Second open point might be linked to the issues around weak form of the efficient market hypothesis (EMH). Most of the proposed models and their testing are based upon historical data, but banks look for financing of new viable projects which have no history (such as pro-forma business plans for UMTS phones). Reliance on historically rooted risk assessments in such projects can mislead both the banks and regulators (what happened internationally in UMTS case, the financing of which suddenly turned profitable utilities and banks into insolvency situation in just one year), and reliance upon those generally accepted supervisory tools can imply huge unintended costs of regulation (e.g. cost resulting from implicit quasi guarantee or indemnification contract between banks and the state), demonstrating the inevitable regulatory risk. Problem analogous to the implications of weak form of EMH can be solved ?
- ✧ Last open point refers to the issue of mitigation of credit risk. The concept of expected credit risk is based upon properly secured credits, which is often not the case for emerging markets (limited enforcement, vaguely defined guarantees, collaterals, credit derivatives, low recovery rate of collateral etc.). Then the relevant additional capital requirements, based in NBCA on measurement of unexpected credit risk, confuse the measurement of expected and unexpected risk. Banks must be extremely conservative in assessing credit risk mitigants and carefully apply the models developed by their parent banks for their markets. [\[1\]](#)
- ✧ [\[1\]](#) Leasing companies could also be included.

Contents



Charles University
Faculty of Social Sciences
PRAGUE

-
- ✦ Introduction
 - ✦ Background of the crisis
 - ✦ Response and Consequences
 - ✦ CEE status
 - ✦ Conclusion



Conclusion

Change in Terms



~~Central European
Country~~

- ✓ Eurozone member
- ✓ Non-Eurozone member

Consequences

Up-to-date EU economic policy/rescues

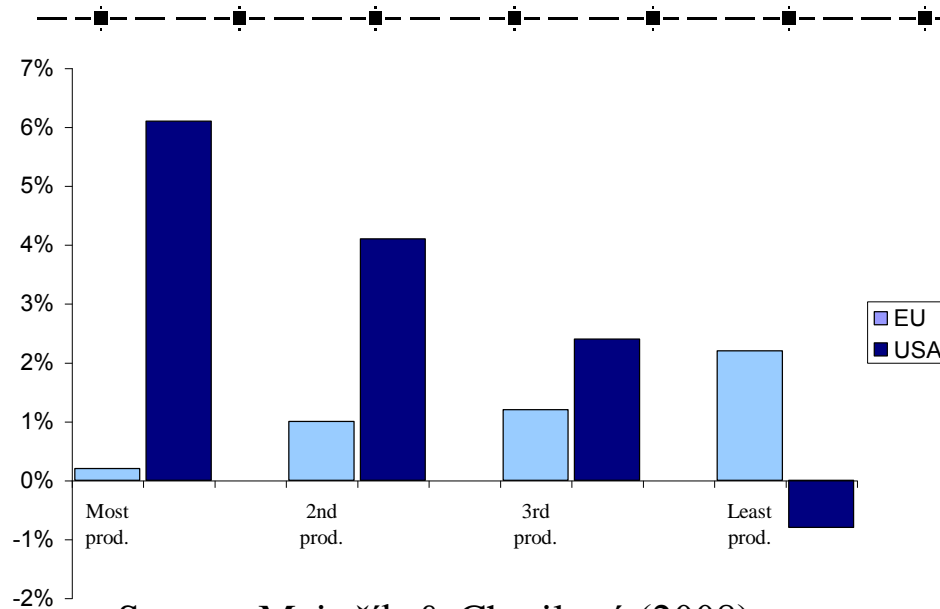
-----■-----■-----■-----■-----■-----■-----■-----■-----■-----
EU leaders agreed on Friday 20 March 2009:

- 1) To lend up to EUR 75bn (\$102bn) to boost the IMF's capital to \$500bn (from \$250bn).
- 2) To provide EUR 50bn (\$68bn) emergency funding available to help non-eurozone members.

■The Czech Republic as EU Presidency supports free foreign trade in contrast to some EU countries (e.g. France's supports of domestic investments of Renault and Peugeot Citroen)

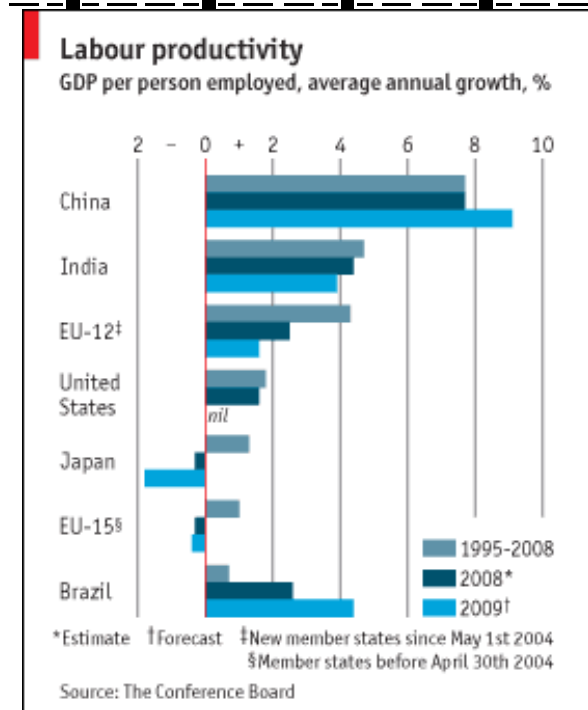
Conclusion

Growth of Employment by Productivity Quartiles is a Long-Term Signal (China and CEE similar pattern as USA)



Source: Mejstřík & Chytilová (2008)
based on Gretschmann (2006)

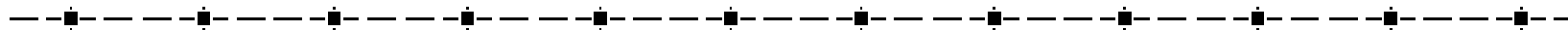
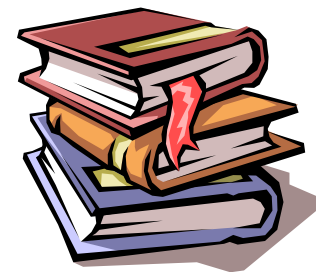
Some un-wise bail-outs and state subsidies might block necessary structural/ innovation changes and fix old problems



Source: The Economist 11/2009

EU old member states might lag behind China and US in terms of productivity...CEE might not

Useful sources



- ✦ IMF (2009), Update on Fiscal Stimulus and Financial Sector Measures,
- ✦ McKinsey (2008): Mapping global capital markets: Fifth Annual Report, McKinsey Global Institute, October 2008
- ✦ Mejstřík M., (2004): Cultivation of Financial Markets in CEE, Karolinum press, Czech Republic
- ✦ Reinhart C.M., Rogoff K. S. (2008): The Aftermath of Financial Crises, paper prepared for presentation at the American Economic Association meetings in San Francisco, January 3, 2009
- ✦ www.imf.org
- ✦ www.bbc.com
- ✦ www.bcg.com

Contacts – Prof. Michal Mejstrik

CEO

EEIP, a.s.

Národní str. 17

110 00 Prague 1

Czech Republic

Tel.: + 420 224 232 754

E-mail: michal.mejstrik@eeip.cz

www.eeip.cz



Director

Institute of Economic Studies

Faculty of Social Sciences

Charles University

Opletalova str. 26

110 00 Prague

Czech Republic

Tel: +420 222 112 306

E-mail: mejstrik@fsv.cuni.cz

<http://ies.fsv.cuni.cz>

