Lecturer: Sándor Bozsik

E-mail: pzbozsi@uni-miskolc.hu

FINANCE

The love of money is the root of all evil.

THE NEW TESTAMENT

Lack of money is the root of all evil.

GEORGE BERNARD SHAW

COURSE OBJECTIVES

- To understand the basic operational rules of financial markets
- Able to analyse the current macroeconomic environment
- To evaluate the potential effect of various economic policy measures

COURSE CONTENT (FROM 16-20 AT ROOM A4/413)

2018.09.17 - Introduction of subject, Macrostatistics — The structure of SNA systems

Structure of Eurostat, Worldbank and European Central Bank database

2018.10.08.- Financial statements of banks Consolidated bank sector financial statements

Camels analysis Balance of payments

2018.10.29 - Main branches of economic policies. Main goals and tools of fiscal and monetary policy Stability and Growth Pact, Maastricht criteria

2018.11.12 - Polak-model. Extended Polak — model How do the fiscal and monetary policy affect to the real economy?

2018.11.26 - Public finance. Tax policies and concepts, Main taxes and fees Presentation of economic debates

2018.12.03 – Presentation of country reports

2018.12.10 – Supplementary Presentations

TEACHING REQUIREMENTS • Requested readings:

- - Rose: Money and capital markets (available in library)
 - Slides and supplementary readings available at webside of departement http://gtk.unimiskolc.hu/uzleti/letoltesek?file_category_id=395&order_type=NAM E&view_type=GRID

• Offered readings:

- Kohn: Financial markets
- Johnson Hazel: Financial institutions and markets (Available in library)

Exam:

- Powerpoint report on the Polak-model of a European country Deadline: Last day of semester (20 points)
- Powerpoint presentation on a financial debate team work (20 points)

STRUCTURE OF REPORT – 20 MINUTES

- Introduction to the finance of the chosen country
 - Brief history, location, size of population, demographics, ethnic distribution, GDP/capita,
- Describe the extended Polak model in 2013 and 2014
 - compare the data with European average
 - Central Budget (main expenses (functional distribution) and main revenues (tax structure)) deficit
 - Change in corporate and household loan
 - Analyse the activity of the economy (GDP growth, productivity, activity (inc. youth unemployment)
 - Analysis of inflation, courntry risk (CDS), interest rates
 - Analyse the external financial equilibrium (balance of payment)
- Confront the data with Stability and Growth Pact
- SWOT analysis of the country (gdp growth, population, productivity, inflation, interest rates, public deficit, current deficit) + advice

FINANCIAL DEBATES – 20 MINUTES

- "Too big to fail too big to survive." (Krugman vs Greenspan) Discuss the optimal size of bank concetration. Shall we split the too large banks?
- E-money bitcoin shall we regulate or shan't? Advantages, disadvantages, risks (Roubini vs Posner)
- Are financial markets efficient? (Fama vs Kahneman) Perfect pricing versus bubbles
- Future of euro (Friedman vs Draghi) Crisis in the eurozone. Is the eurozone an optimal currency zone?
- What is a real shape of Laffer-curve? (Laffer vs Trabandt) Flat tax versus progressive income tax. Advantages and disadvantages. Examples.
- Debt crisis management orthodoxy vs unorthodoxy Can the Washington consensus work? Country cases.

STRUCTURE OF DEBATE PRESENTATION

- Confront the two views (target variable, influencing variables, logic, assumptions)
- Try to explore the hidden assumptions
- Confront the views with empirical facts
- Draw the conclusions

Basic equation of economy How can you access economic informations?

MEASURING THE MACRO OUTPUT

SNA (System of National Accounts)

- Worked out by the UN
- Introduced in 1953, updated in 1993
- Reworked version for Europe: ESA95

EXAMPLE ON VALUE ADDED

Gros output (HUF)

Wheat Flavour Bread Total

Output: 100 220 350 = 670 (GO)

- Material : ?... 100 220 = 320

Net output (Value added):

100 120 130 = 350 (GDP)

-Depreciation: 30 30 20 = 80

Income: 70 90 110 = 270 (NDP)

MAJOR SNA INDICATORS

Level of accumulation	Domestic	National			
Gros	GO				
Semi-net	GDP	GNI	GNDI		
Net	NDP	NNI	NNDI		

ABBREVATIONS

- GO (gros output)
- GDP (gros domestic product)
- NDP (net domestic product)
- GNI (gros national income)
- NNI (net national income)
- GNDI (gros national disposal income)
- NNDI (net national disposal income)

LINKAGE AMONG THE INDICATORS

- GDP = GO- material cost
- NDP = GDP- depreciation
- GNI = GDP + net factor yield
- NNI = GNI depreciation
- GNDI = GNI+ savings
- NNDI = GNDI-depreciation

MEASURING THE GDP

- 1. Production side
- + Consumption(C)
- + Gros private investment (I)
- + Government expenses (G)
- + Net export

- 2. Income side
- + Salaries (w)
- + Interest, rent, dividend (i)
- + Indirect taxes (t)
- + Depreciation (d)
- + Profit (p)
- 3. Usage side
- + Consumption(C)
- + Savings (S)
- ± Budget surplus /deficit (T-TR)
- + NFY+NT

BASIC EQUATION

Production side

$$GDP = C + I + G + (X - M)$$

Income side

$$GDP = w + i + d + t + p$$

Usage side

$$GDP = C + S + (T - TR) + NFY + NT$$

$$C + I + G + (X - M) = C + S + (T - TR) + NFY + NT$$



$$X - M + NFY + NT = (T - TR - G) + (S - I)$$

MONETARY AGGREGATES

• Bank note: issued amount of bank note and coins. Called monetary basis. Splitted into money at banks and money in circulation.

M0 = C + R

- Commercial bank account money (DS)
- Further money aggregates:

M1= Cash in circulation +DS

M2 = M1+DT (short-term deposits)

M3 = M2 + MI (bank securities)

M4 = M3 + TN (Treasury – notes)

FISHER EQUATION

$$M*V = P*T$$

M – money supply

V – velocity of money

P – price level

T – volume of transactions

Assumption:

- Closed economy or export and import are equal
- Cash velocity is constant

Money supply as anchor

$$M * V = P * T$$

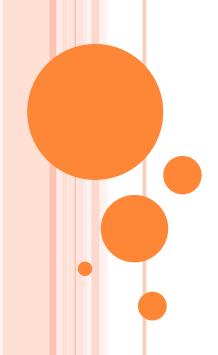
$$\Delta M * \Delta V = \Delta P * \Delta T$$

$$\Delta V := 1 \Longrightarrow \Delta P = \frac{\Delta M}{\Delta T}$$

Assumption:

- Closed economy or export and import are equal
- Cash velocity is constant

Consolidated bank sector financial statements



MAJOR ASSETS OF BANKS

HUF 494,837 459,690	F/X 149,212	Total	HUF	F/X							
·	1/10 212			1 / 🔨	Total	HUF	F/X	Total	HUF	F/X	Total
150 600	173,212	644,049	434,844	171,464	606,308	454,039	118,382	572,421	395,488	283,823	679,3°
403,030	27,522	487,212	1 886,431	17,382	1 903,813	2 321,791	172,633	2 494,424	2 911,875	178,294	₩ 090,16
780,427	223,168	1 003,595	2 323,909	445,828	2 769,737	2 615,259	944,753	3 560,012	2 875,792	808,748	₹ 684,54
1 240,117	250,690	1 490,807	4 210,340	463,210	4 673,550	4 937,050	1 117,386	6 054,436	5 787,667	987,042	9 6 774,70
667.556	808.818	1 476.374	938.219	497.093	1 435.312	697.148	834.642	1 531.790	749.677	606.196	ete x 355,87
	·	·				,		·			
302,510	·	·	·			·	·	·			
3 072,098	1 832,803	4 904,901	5 615,350	14 259,275	19 874,625	5 319,994	12 735,257	18 055,251	5 629,916	9 603,937	15 233,85
2 075,950	1 099,733	3 175,683	2 729,894	4 216,862	6 946,756	2 381,315	3 622,742	6 004,057	2 276,862	2 941,312	5 218,17
655,710	21,531	·			·			·	2 358,504	3 448,250	5 806 75
146,512	9,695	156,207	230,681	397,902	628,583	251,876	422,770	674,646	267,985	425,966	693,95
87,911	21,327	109,238	367,239	94,159	461,398	245,098	61,790	306,888	243,719	58,973	302,69
73,561	15,943	,				·	·	·			
167,860	1,349	169,209	551,984	30,806	582,790	508,321	21,567	529,888	503,879	18,253	522,13
5 950,452	3 089,837	9 040,289			29 177,878	12 718,855	15 406,412			12 053,269	26 131,38
3	365,046 365,046 302,510 3072,098 075,950 655,710 146,512 87,911 73,561 167,860	780,427 223,168 240,117 250,690 667,556 808,818 365,046 127,364 302,510 681,454 3072,098 1 832,803 2075,950 1 099,733 655,710 21,531 146,512 9,695 87,911 21,327 73,561 15,943 167,860 1,349	780,427 223,168 1 003,595 1 240,117 250,690 1 490,807 667,556 808,818 1 476,374 365,046 127,364 492,410 302,510 681,454 983,964 3072,098 1 832,803 4 904,901 2075,950 1 099,733 3 175,683 655,710 21,531 677,241 146,512 9,695 156,207 87,911 21,327 109,238 73,561 15,943 89,504 167,860 1,349 169,209	780,427 223,168 1 003,595 2 323,909 1 240,117 250,690 1 490,807 4 210,340 667,556 808,818 1 476,374 938,219 365,046 127,364 492,410 496,328 302,510 681,454 983,964 441,891 3 072,098 1 832,803 4 904,901 5 615,350 2 075,950 1 099,733 3 175,683 2 729,894 655,710 21,531 677,241 2 090,443 146,512 9,695 156,207 230,681 87,911 21,327 109,238 367,239 73,561 15,943 89,504 831,267 167,860 1,349 169,209 551,984 300,452 200,40,289 13	780,427 223,168 1 003,595 2 323,909 445,828 1 240,117 250,690 1 490,807 4 210,340 463,210 667,556 808,818 1 476,374 938,219 497,093 365,046 127,364 492,410 496,328 3,416 302,510 681,454 983,964 441,891 493,677 4 072,098 1 832,803 4 904,901 5 615,350 259,275 2 075,950 1 099,733 3 175,683 2 729,894 4 216,862 655,710 21,531 677,241 2 090,443 5 039,635 146,512 9,695 156,207 230,681 397,902 87,911 21,327 109,238 367,239 94,159 73,561 15,943 89,504 831,267 84,045 167,860 1,349 169,209 551,984 30,806 15,050,452 9,040,289 13 15	780,427 223,168 1 003,595 2 323,909 445,828 2 769,737 1 240,117 250,690 1 490,807 4 210,340 463,210 4 673,550 667,556 808,818 1 476,374 938,219 497,093 1 435,312 365,046 127,364 492,410 496,328 3,416 499,744 302,510 681,454 983,964 441,891 493,677 935,568 3 072,098 1 832,803 4 904,901 5 615,350 259,275 874,625 2 075,950 1 099,733 3 175,683 2 729,894 4 216,862 6 946,756 655,710 21,531 677,241 2 090,443 5 039,635 7 130,078 146,512 9,695 156,207 230,681 397,902 628,583 87,911 21,327 109,238 367,239 94,159 461,398 73,561 15,943 89,504 831,267 84,045 915,312 167,860 1,349 169,209 551,984 30,806 582,790 3950,452 9,040,289 13 15 29	780,427 223,168 1 003,595 2 323,909 445,828 2 769,737 2 615,259 1 240,117 250,690 1 490,807 4 210,340 463,210 4 673,550 4 937,050 667,556 808,818 1 476,374 938,219 497,093 1 435,312 697,148 365,046 127,364 492,410 496,328 3,416 499,744 274,824 302,510 681,454 983,964 441,891 493,677 935,568 422,324 3072,098 1 832,803 4 904,901 5 615,350 259,275 874,625 5 319,994 2 075,950 1 099,733 3 175,683 2 729,894 4 216,862 6 946,756 2 381,315 655,710 21,531 677,241 2 090,443 5 039,635 7 130,078 2 090,613 146,512 9,695 156,207 230,681 397,902 628,583 251,876 87,911 21,327 109,238 367,239 94,159 461,398 245,098 73,561 15,943 89,504 831,267 84,045 915,312 305,329	780,427 223,168 1 003,595 2 323,909 445,828 2 769,737 2 615,259 944,753 1 240,117 250,690 1 490,807 4 210,340 463,210 4 673,550 4 937,050 1 117,386 667,556 808,818 1 476,374 938,219 497,093 1 435,312 697,148 834,642 365,046 127,364 492,410 496,328 3,416 499,744 274,824 29,883 302,510 681,454 983,964 441,891 493,677 935,568 422,324 804,759 2072,098 1 832,803 4 904,901 5 615,350 259,275 874,625 5 319,994 12 735,257 2075,950 1 099,733 3 175,683 2 729,894 4 216,862 6 946,756 2 381,315 3 622,742 655,710 21,531 677,241 2 090,443 5 039,635 7 130,078 2 090,613 5 103,529 146,512 9,695 156,207 230,681 397,902 628,583 251,876 422,770 87,911 21,327 109,238 367,239 94,159 461,398 <t< td=""><td>780,427 223,168 1 003,595 2 323,909 445,828 2 769,737 2 615,259 944,753 3 560,012 1 240,117 250,690 1 490,807 4 210,340 463,210 4 673,550 4 937,050 1 117,386 6 054,436 667,556 808,818 1 476,374 938,219 497,093 1 435,312 697,148 834,642 1 531,790 365,046 127,364 492,410 496,328 3,416 499,744 274,824 29,883 304,707 302,510 681,454 983,964 441,891 493,677 935,568 422,324 804,759 1 227,083 2072,098 1 832,803 4 904,901 5 615,350 259,275 874,625 5 319,994 12 735,257 18 055,251 2075,950 1 099,733 3 175,683 2 729,894 4 216,862 6 946,756 2 381,315 3 622,742 6 004,057 655,710 21,531 677,241 2 090,443 5 039,635 7 130,078 2 090,613 5 103,529 7 194,142 146,512 9,695 156,207 230,681 397,902 628,583 251,876</td><td>780,427 223,168 1 003,595 2 323,909 445,828 2 769,737 2 615,259 944,753 3 560,012 2 875,792 1 240,117 250,690 1 490,807 4 210,340 463,210 4 673,550 4 937,050 1 117,386 6 054,436 5 787,667 667,556 808,818 1 476,374 938,219 497,093 1 435,312 697,148 834,642 1 531,790 749,677 365,046 127,364 492,410 496,328 3,416 499,744 274,824 29,883 304,707 301,895 302,510 681,454 983,964 441,891 493,677 935,568 422,324 804,759 1 227,083 447,782 3072,098 1 832,803 4 904,901 5 615,350 259,275 874,625 5 319,994 12 735,257 8 055,251 5 629,916 2 075,950 1 099,733 3 175,683 2 729,894 4 216,862 6 946,756 2 381,315 3 622,742 6 004,057 2 276,862 655,710 21,531 677,241 2 090,443 5 039,635 7 130,078 2 090,613 5 103,529 7 194,142<</td><td>780,427 223,168 1 003,595 2 323,909 445,828 2 769,737 2 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Major liabilities of banks

Description	Dec 2001 Audited		Dec 2008 Audited			Dec 2010 audited			Jul 2012			
	HUF	F/X	Total	HUF	F/X	Total	HUF	F/X	Total	HUF	F/X	Total
						12			11		1	11
Deposits Deposits	4 259,784	1 796,502	6 056,286	9 162,656	3 051,355	214,011	8 625,882	2 963,310	589,192	9 028,379	2 678,03 6	706,415
Of which: Corporate deposits*	1 357,027	358,532	1 715,559	2 395,117	1 052,554	3 447,671	2 323,402	1 187,817	3 511,219	2 353,339	1 123,492	3 476,831
Retail deposits	2 406,785	765,963	3 172,748	4 959,940	1 062,644	6 022,584	4 817,329	1 097,623	5 914,952	5 141,419	912,889	6 054,308
Interbank deposits	366,619	385,739	752,358	1 206,450	3 619,725	4 826,175	1 597,133	3 638,823	5 235,956	1 739,277	2 477,357	4 2 <mark>16,634</mark>
Loans taken	104,667	592,026	696,693	1 021,943	3 194,719	4 216,662	758,678	3 171,618	3 930,296	888,155	2 804,945	3 693,100
Debt securities	120,399	37,784	158,183	1 498,533	1 525,727	3 024,260	1 814,067	1 474,048	3 288,115	1 799,142	924,947	2724,089
Accrued interest payable	38,615	16,113	54,728	369,400	122,584	491,984	221,636	55,572	277,208	238,071	71,651	309,722
Other accruals, deferred income and												
other liabilities	236,628	102,922	339,550	1 215,245	130,215	1 345,460	1 215,519	89,279	1 304,798	627,465	93,472	720,937
Subordinated liabilities**	18,551	107,257	125,808	23,497	616,922	640,419						
Provisions	87,452	2,512	89,964	214,552	19,173	233,725	165,051	12,689	177,740	184,215	8,357	192,572
Own capital	766,719	0,000	766,719	2 185,787	-0,605	2 185,182	2 321,952	0,010	2 321,962	2 567,762	0,156	2 5 <mark>67,918</mark>
Total liabilities	5 999,434	3 040,855	9 040,289	16 898,063		29 177,878	16 719,918	11 405,349	28 125,267	17 072,466	9 058,921	26 131,387

Forrás: PSZÁF

2008.09.08.

BAD DEBTS

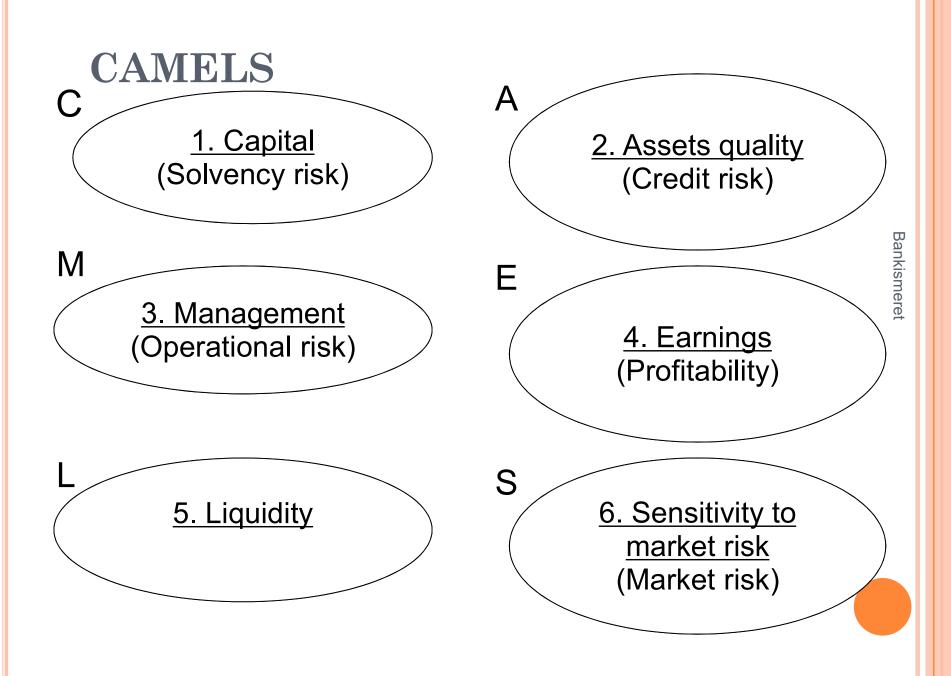
Évek	Minősítési kötelezettség alá tartozó összesen (1) = (2) + (7)	Problémamentes (2)	Külön figyelendő (3)	Átlag alatti (4)	Kétes (5)	Rossz (6)	Nem problémamentes (7) = (3)+(4)+(5)+(6)
2002	7 359,625	6 518,092	572,200	131,049	71,241	67,043	841,533
2006	16 410,221	14 766,256	1 246,923	127,114	101,090	168,838	1 643,965
2008	23 966,957	22 350,658	924,887	256,146	198,273	236,993	1 616,299
2010	23 561,881	18 584,804	2 829,816	806,481	655,416	685,364	4 977,077
2012.06.	21 536,161	15 727,494	2 819,358	726,980	1 212,505	1 049,824	5 808,667

INCOME STATEMENTS

2008.09.

Description	2001 Audited	2004 Audited	2006 Audited	2008 Audited	2009 Audited	2010 Audited	2011 Audited	Q1-2 2012
Net intereset income	340,695	549,581	697,794	713,943	756,393	865,746		5 405,077
Interest income	784,617	1 438,905	1 514,894	2 196,523	2 464,386	2 042,666	2 019,665	≝ 050,018
Interest expenditure	443,922	889,324	817,100	1 482,580	1 707,993	1 176,920	1 171,274	€ 644 <mark>,941</mark>
N <mark>on-interest income (net)</mark>	86,200	242,635	300,628	339,156	541,913	179,365	250,642	\leq -141,609
Commissions and fees	98,594	181,015	229,933	242,646	258,172	262,056	232,574	<u>ਲੋਂ</u> 111,254
Dividends	4,949	19,140	28,098	163,482	66,718	68,495	89,669	48,972
Net profit or loss on financial and investment services *	169,281	89,826	115,957	139,792	301,368	190,216	256,478	18,874
Other non-interest type profit *	-186,624	-47,346	-73,360	-206,764	-84,345	-341,402	-328,079	-3 <mark>20,709</mark>
Operating expenditures	301,013	417,949	525,547	642,276	588,059	598,777	566,971	2 <mark>80,465</mark>
Change in specific provisions and value adjustments **	n.a	-52,495	-76,699	-144,351	-442,530	-377,098	-681,948	57,679
Result of ordinary business activity	n.a	321,772	396,176	266,472	267,717	69,236	-149,886	40,682
Extraordinary profit/loss	7,193	0,196	29,694	14,760	-21,604	-34,822	-61,246	-32,294
Pre-tax profit	133,077	321,968	425,870	281,232	246,113	34,414	-211,132	8,388
Tax liabilities***	25,723	46,894	69,075	44,610	37,025	22,132	32,192	8,669
After-tax profit	107,354	275,074	356,795	236,622	209,088	12,282	-243,324	-0,281

Camels analysis



1. CAPITAL

Capital adequacy ratio

Guaranteed capital

Risk weighted assets

2. ASSET QUALITY

Non performing ratio

Bad and doubtful debt

Total outstandings

Elements and Analysis of balance of payments

The balance of payments is "a statistical statement that systematically summarizes, for a specific time period, the economic transactions of an economy with the rest of the world."

(IMF official definition)

CURRENT ACCOUNT

Measures the *net* flow of goods, services, and unilateral transfers between a country and all foreign countries.

- o merchandise trade balance
- trade in services
- o net investment income
- unilateral transfers

International Asset Transactions (*NET FINANCIAL FLOWS*)

- Two broad categories:
 - governments' transactions (official settlement balance, or reserve balance)
 - private capital flows
 - oportfolio investment
 - odirect investment
- Other minor asset transactions

Current Account Balance

+

Net Financial Flows

= 0

A current account deficit *must* be financed by capital inflows, or it cannot be incurred in the first place



Branches of economic policy

Branches	Goal	Tools	Responsible organisation
Monetary policy	Price stability Monetary stability	open market operations reserve ratio	National bank
Fiscal policy	sustainable, long-term growth	tax policy social and economic transfers	Government
(Foreign exchange policy)	solvency exchange rate stability	reserve policy peg	National Bank (Government)

MONETARY POLICY

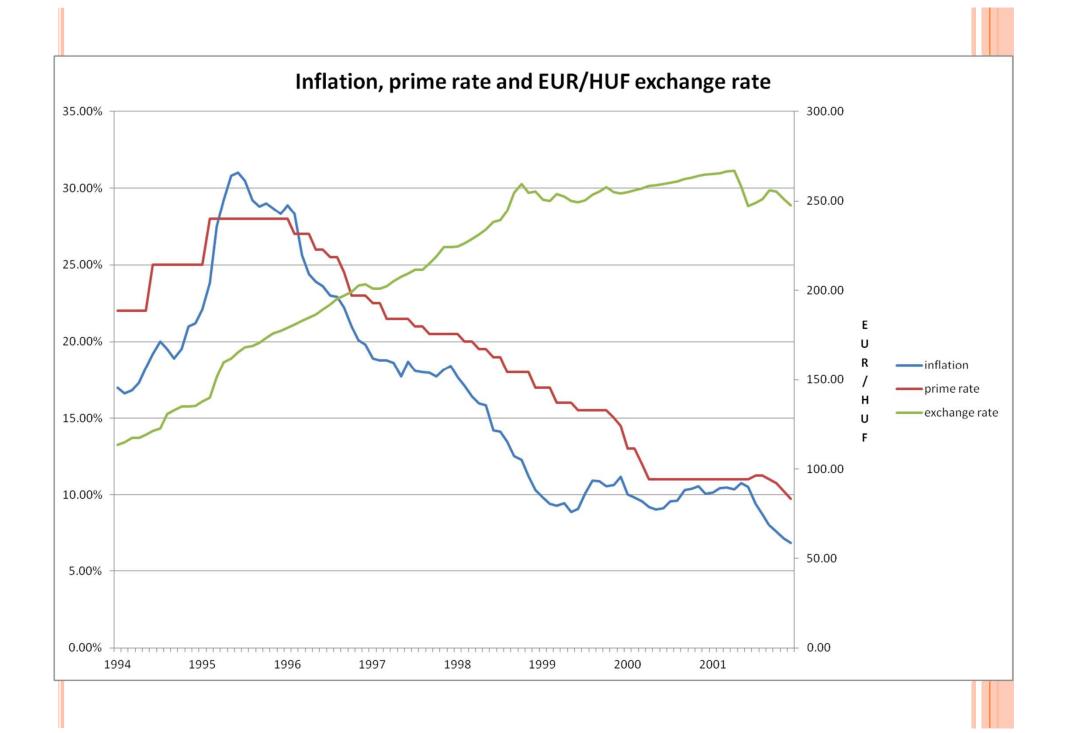
- Target: inflation below desired level (in Europe 2%, in Hungary 3%)
- Instruments:
 - Direct
 - reserve rate
 - o loan limits
 - special loan facilities
 - moral pressure
 - Indirect
 - open market operations
 - refinancing

GOAL OF MONETARY POLICY

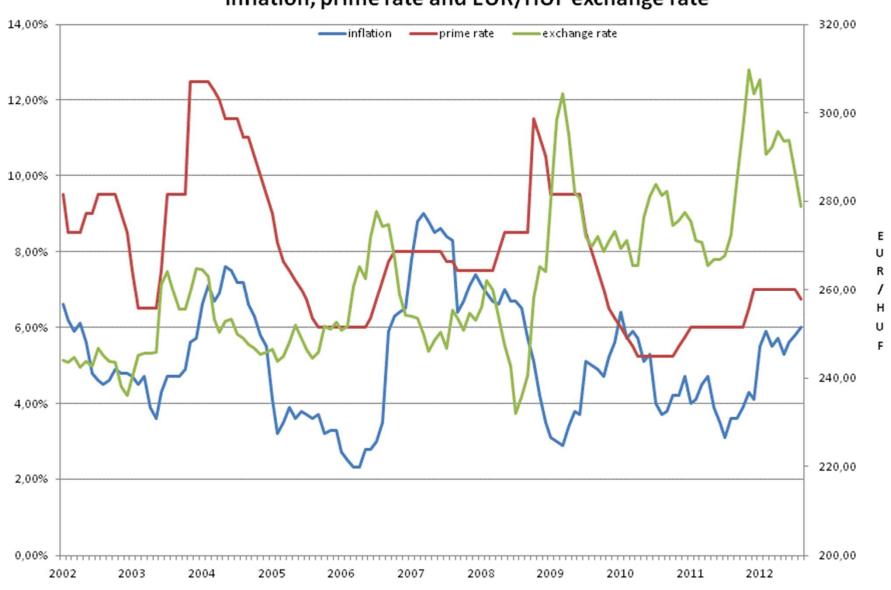
- Price stability
- Monetary stability
- Anchors:
 - Money supply
 - Exchange rate
 - Direct inflation targeting

EXCHANGE RATE AS ANCHOR

- Devaluation of currency
 Inflation increases
 - Price level of import goods increases
 - Price level of domestic goods increases through import purchase
 - Profit of exporters increases the disposable income
- Appreciation of currency
 Inflation decreases
 - Price level of import goods decreases
 - Price level of domestic goods decreases through import purchase
 - Profit of exporters declines



Inflation, prime rate and EUR/HUF exchange rate



INFLATION TARGETING (MISHKIN)

- 1. Declaring a fixed medium term inflation target.
- 2. The National Bank is committed to price stability -> it should be independent.
- 3. The National Bank operates on a basis of a wide information base.
- 4. The monetary policy is transparent. One goal one tool.
- 5. Reporting commitment.



FOUR ELEMENTS OF INDEPENDENCE

- Personal independence
- Political independence
- Financing independence
- Economic independence

Responsible body of Monetary Policy: Monetary Board

Mundell's optimal currency belt

Assymetric shock – output of country decreased – devaluation if every country has got own currency

If there is a common currency, devaluation is not an option. Rather

- to make the production factors flexible liberalisation of capital and labour movement
- •to transfer some money to the poor region poor means that the GDP/capital doesn't exceed the two third of EU average

Optimal currency belt:

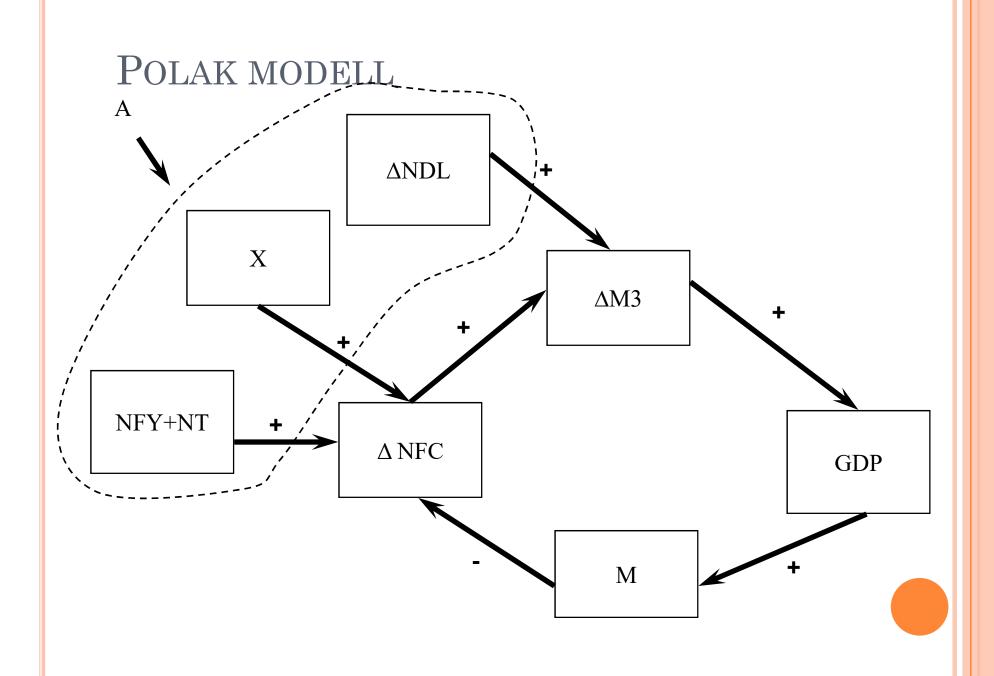
- Strong economic connection
- At the same phase of economic cycle
- Easy to migrate the capital and labour force

CRITERIAS OF MAASTRICHT-TREATY

- <u>price stability</u> keep your inflation below 1% over the average inflation rate of three countries with lowest inflation figure
- convergence of long term interest rates keep your long interest rate 1.5% over the averge long term interest rate of three countries with lowert long term interest rate figure
- <u>foreign currency rates stability</u> fix your currency against euro with a 15% peg during 2 years
- stability of public finance
 - public deficit should be lower than 3% of annual GDP
 - public debt should be lower than 60% of annual GDP
 - (Primary balance is positive)

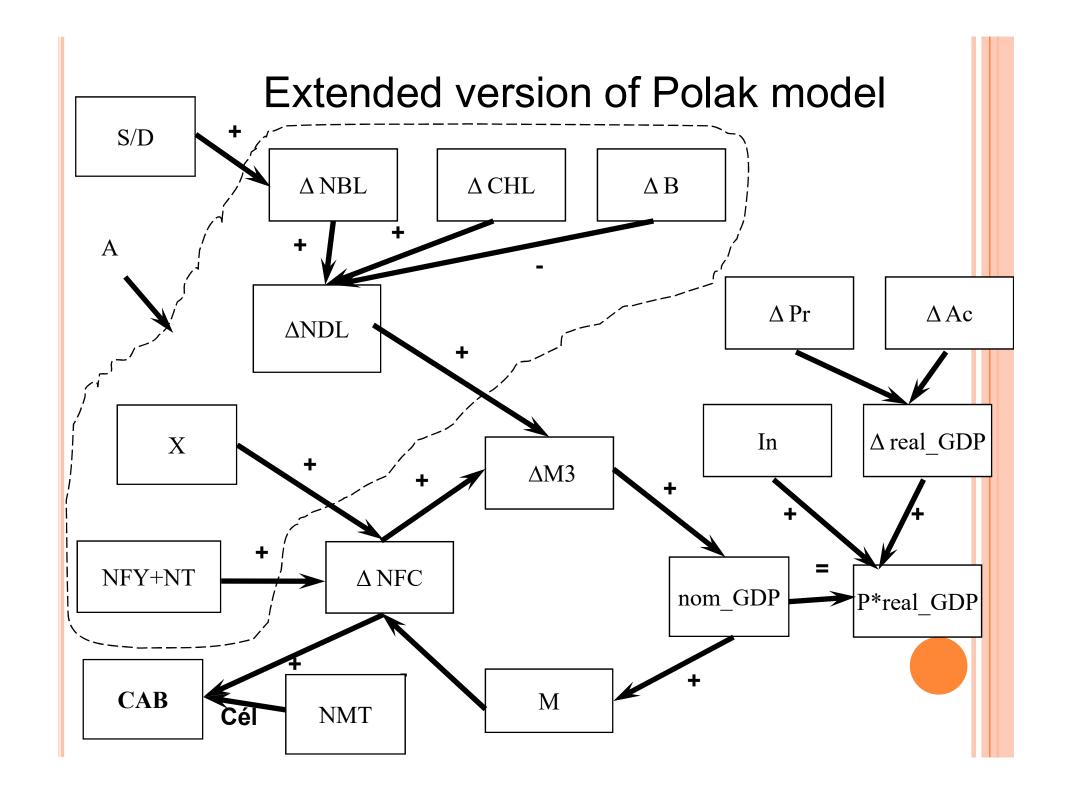
WHY IS THE POLAK MODEL?

- Belongs to the mainstream
- Used by IMF (country report)
- Entire covers the whole macrostatistics
- Egzact based on computational linkages
- Focuses on the problems of indebted, open economies



MEANINGS OF ABBREVIATIONS

- ΔNDL change in net domestic loan
- M3 change in money supply M3 (cash + deposit in sight and short term deposit)
- GDP Gros Domestic Product
- M import
- \circ Δ NFC change in net foreign claims
- NFY net factor yield
- NT net transfer
- \circ X export



MEANINGS OF NEW ABBREVIATIONS

- ΔNBL change in net budget loans
- ΔCHL change in corporate/households loan
- \circ ΔB change in long term bank liabilities
- CAB current account balance
- o S/D − budget surplus/deficit
- P price level
- In inflation
- Δreal_GDP economic growth
- \circ Δ Pr change in productivity
- \circ Δ Ac change in activity

WORKING OF MODEL

Budget deficit and loan demand of corporates and households increase the net domestic loan. Its increase enhances the money supply, which leads greater income. The greater income is spent in three way. The income leads to greater real GDP growth or/and leads to higher inflation or/and leads to bigger import. The import decreases the net foreign claims, so it leads to foreign indebtedness. The influencing factors are the followings:

- Demand flexibility of import
- Flexibility of production factors
- Inflation expectations
- Exchange rates and interest rates

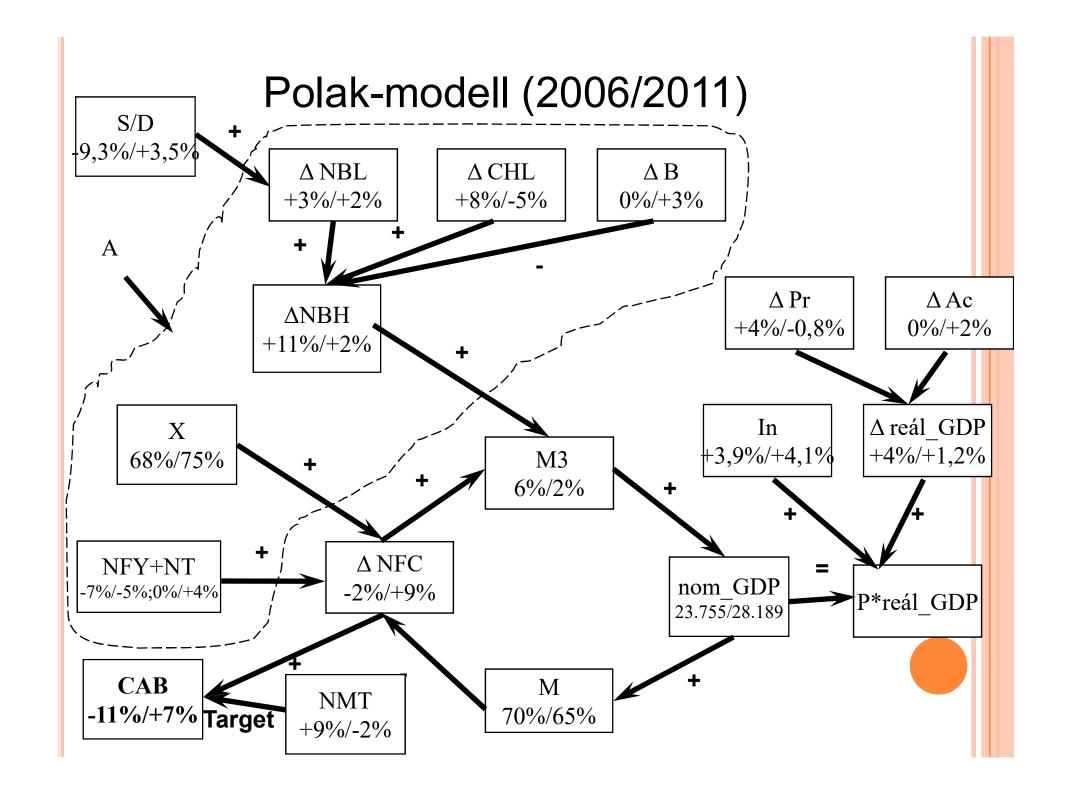
ELEMENTS OF NET FOREIGN CLAIMS

- CAB current account balance
 - X export
 - M import
 - NFY net factor yields
 - NT net transfers
- NMT non monetary transfer (direct foreign investment)

EXOGENIOUS FACTORS(ADSZORPCIÓ)

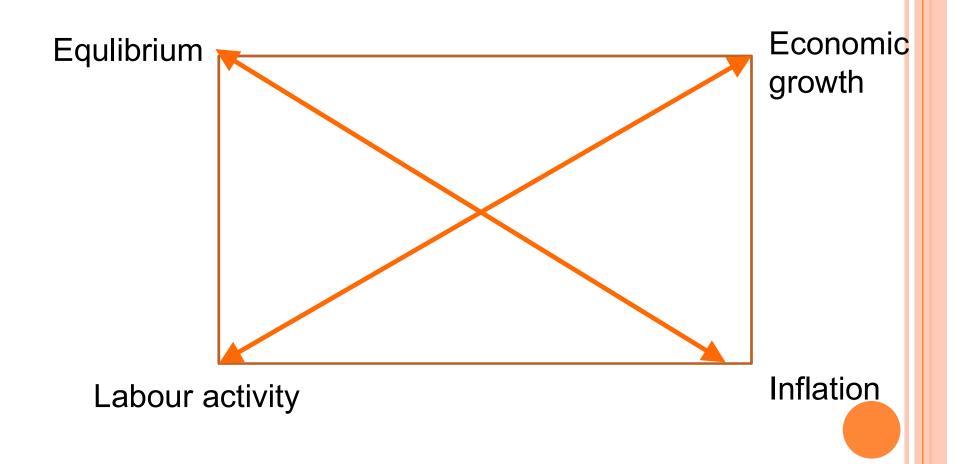
They are independent from the monetary policy (structural factors)

- X export (depends on international competitiveness
- NFY net foreign yield (depends on ownership structure)
- ΔNDL change in net domestic loan (depends on loan demand of state, corporates and households)
- NMT non monetary transfer (depends on investment climate



Public finance

"MAGIC SQUARE OF ECONOMIC POLICY



FUNCTIONS OF THE STATE

- Public duties: Those duties which the other actors of the society cannot solve.
- *classical*: legal, administrative services (army, police, court, governmental bodies)
- Social political: social welfare, education, culture
- Economical: influencing the economy

AIMS AND TOOLS OF FISCAL POLICY

- Inflation (price stability)
- Balance (balanced central budget, and balance of payment)
- Activity (increasing)
- GDP (increasing)
- To reach a long-term sustainable growth of the living standard (GDP increase)
- Sustainable
 - Demografically
 - Ecologically
 - Economically (balanced central budget and balanced balance of paymnent)

FISCAL POLICY

If an economy is in a depression or a recession, the government may try to energize it by spending more money or by cutting tax rates.

During the Great Depression, John Maynard Keynes recommended massive government spending to re-start the U.S. economy.

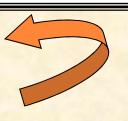
CONTRACTIONARY POLICY

CONTRACTIONARY FISCAL POLICY

occurs when the government deliberately reduces its deficit in order to slow down the economy (usually with the goal of reducing inflation).

The net effect of contractionary fiscal policy, all other things being equal, is to slow down the rate of growth of the economy.





- -- In contractionary fiscal policy, the government cuts its spending (G) or raises taxes (T) or both.
- -- Contractionary fiscal policy slows down the economy by decreasing aggregate demand

EXPANSIONARY POLICY

- -- With an expansionary fiscal policy, the government raises its spending (G) or cuts taxes (T) or both.
- An expansionary fiscal policy expands the economy because it stimulates aggregate demand.

NEOLIBERAL APPROACH (MILTON FRIEDMAN)

- The government cannot change the long run growth rate, because it depends on the production factors.
 - unemployment is voluntarily
 - capacity are given
 - expansion leads to inflation
 - Import leads to foreign indebtedness

STRUCTURE OF GOVERNMENT SECTOR

- Central budget
- Local governments

Tax policies and concepts

TAX POLICY

• Tax policy means the types of tax employed, the way of taxation, and the economic concepts behind taxation

Principles

- Coverage
- Enacted by the Parliament
- Utilitarism
- Fair treatment
- Transparency/Openess
- Economical

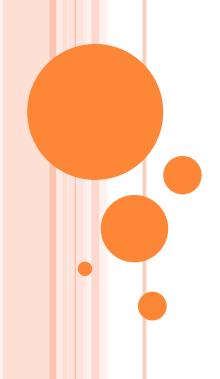
DIRECT VERSUS INDIRECT TAXES

Taxes	Indirect	Direct
Tax object	Sales	Income, property
What is taxed?	Consumption	Income
Tax avoidance	Smuggling, black sales	Black labour
Tax burden	Normative	Differentiate
Economic effect	Increases inflation/lower consumption	Decreases the incentive to work

KEYNESIAN AND MONETARY TAX POLICY

Viewpoint	Keynesian	Monetary
Progressivity of direct taxes	Strong	Weak (flat tax)
Tax allowance	Many	Limited
Taxation of capital yield	Yes	None
Main pillar of taxation	Direct	Indirect

Main taxes and fees



Main incomes of central budget – Incomes from...

- INCOMES FROM...
 Economic organisations (corporate tax, mining rent, corporate car tax)
- Indirect taxes (Value Added Tax, Excise Tax)
- Households (Personal Income Tax, Social insurance fees)
- Central budget institutions
- Local governments
- International organisations
- Debt service

Main way of incomes: taxes, customs, charges

CORPORATE TAX

Viewpoint	Corporate tax
Tax subject	Economic corporates
Tax object	Economic activity
Tax base	Adjusted pre tax profit
Tax rate	10%, above 500 million HUF 19%
Tax allowances	New investments, employment allowances,

PERSONAL INCOME TAX

Viewpoint	Corporate tax
Tax subject	Individual with domestic income, or Hungarian resident with foreign income
Tax object	Income
Tax base	Adjusted total income
Tax rate	16%
Tax allowances	Family allowance, personal allowance, farmer allowance

VALUE ADDED TAX

Viewpoint	Corporate tax
Tax subject	Economic organisation
Tax object	Sales
Tax base	Net sales
Tax rate	27%
Tax allowances	18% - food, traffic; 5% - book, some medicine

SOCIAL CONTRIBUTION TAX

Viewpoint	Corporate tax
Tax subject	Economic organisation
Tax object	Employment
Tax base	Net wages
Tax rate	27%
Tax allowances	Income from intellectual product selling

EXCISE TAX

Viewpoint	Corporate tax
Tax subject	Economic organisation
Tax object	Sales of alcohol, tobacco and oil
Tax base	Net sales
Tax rate	various
Tax allowances	various

Public budget cycle

BUDGET

o Budget:

- Financial plan enacted by the Parliament.
- Financial fund, which is collected, spent, and contolled by the government.

o Budget cyle:

- Planning
- Budget Committee approval
- Minister's proposal
- Debate
- Voting. Enacting.
- Execution and controll (ÁSZ)
- Report

BUDGET

- Budget: Accounting the total revenues and total expenses of an organisational unit at a given period
 - Related to the future
 - It is published in a fixed form
 - Legal commitment
- Budget is based on budget of public institutions.
- Budgeting principles: completed, uniform, transparent, real, detailed

Main expenses of central budget – Expenses for

- Economic subsidies
- Consumption subsidies
- Accumulation
- Social insurance
- Central budget institutions
- Local governments
- Specialised state funds
- International organisations
- Debt service, interest payment
- General reserve

BALANCE OF STATE BUDGET

- 1. **Technical deficit**: incomes occasionally, expenses continuously *short term bridge loan*
- 2. **Regulational deficit**: due to imprecisiously measured income *state securities*
- 3. **Real deficit**: expense unavoidable, but not enough income *foreign loan, money creation*

International comparison of budget

- Total expenses or deficit / GDP
 - Redistribution depends on:
 - Economic development
 - Market tradition
 - Social policy

SPECIALISED FUNDS

- Finance some particular duties of the state
- Use own taxes and contributions
- Advantages:
 - Some kind of independence from central budget
 - Attitude of taxpayers is better to see the precise goal of taxes
- Disadvantages:
 - Limited transparency
 - Decentralised cash management
 - Actual preferences of public finance are more difficult to ensure.

Local governments Duties and local taxes

LOCAL GOVERNMENTS

- 1. Finance the local public services
- 2. Encourage the economic development investments
- Management:
 - *Taxes*: local taxes
 - Subsidies
 - *Own incomes:* from operation of public property

LOCAL TAXES

Viewpoints	Tax object	Tax subject	Tax base	Tax allowance
Building tax	Buildings	Owner	Square meter or market value	Church, public service
Site tax	Site	Owner	Square meter or market value	Same
Corporate communal tax	Employment	Enterprises	Number of employees	None
Private communal tax	Buildings, site, rent	Owner or tenant	Lump sum	Economic usage
Industrial tax	Sales	Enterprises	Net sales – material cost	Employment
Turism tax	Hotel service, building or accomodation	Owner of building	Lump sum, sales, night	Children, pensioner

Exchange rate and international finance

How is the exchange rate determined?

DIMENSIONS OF GLOBAL FINANCIAL GOVERNANCE

- Monetary order: exchange rate systems
- Lending facilities: short-term financial stabilisation; long-term developmental lending
- Macroeconomic policy supervision (limited)
- Banking supervision; regulation of financial markets

3 FUNCTIONS OF MONETARY SYSTEM

- Gives order and stability to foreign exchange markets (fixed vs. floating exchange rates)
- Encourages the elimination of balance-ofpayments problems
- Provides access to international credit in emergency situations (lender of last resort)
- B Eichengreen: 'glue that binds national economies together'.

FLUCTUATIONS IN MONETARY HISTORY

- Greater friction and discontinuity than trade order
- 4 monetary systems in last 100 years:
 - Before 1914: Gold Standard; high capital mobility;
 - Interwar years: Collapse of GS; decline in capital flows
 - After 1945: Bretton Woods system; gradual recovery of capital flows
 - After collapse of BWS: free floating exchange rates; high capital mobility

Lessons from Past 100 years

- Difficulty in creating a stable and lasting monetary order
- Greater hurdles for establishing fixed exchange rates: democratisation of economic policy
- Decline of state power (Susan Strange)?
 - Capital mobility after 1973
- Or continued power of states (Kapstein; Helleiner)?
 - Regulatory role of state

Bretton Woods System

- Dollar/gold base for monetary system;
- Fixed ('pegged') exchange rates
 - but adjustable if fundamental disequilibrium
- Controls permitted on international capital flows; gradual phase out;
- 'Scarce currency' clause: import controls against countries with persistent payments surpluses
- New institutions: International Monetary Fund (IMF), to monitor economic policy and provide short-term financial aid

BWS IN PRACTICE

- Currency rate adjustments applied too rarely
- IMF resources insufficient; no 'super bank'
- IMF had no teeth in controlling national economic policy
- But: capital controls worked well in 1950s;
 key to success of early BWS; eased pressure
 on governments to adjust currency rates;
- Once capital controls were lifted: inevitable collapse of BW?

COMPARISON OF IMF AND IBRD

Aspects	IMF	IBRD
Corporate's goal	Maintain the stability of the international financial system	Encourage the recovery of economy of member countries
Debtor of outstanding loans	State (National Bank)	Corporates (co-operating with local banks)
Purpose of loan	Free	Fixed (by tender)
Conditions	Stand-by (to macroeconomic conditions)	Stand-by (to microeconomic conditions)
Constraints	Linked to the quota	Linked to the equity
Maturity of loan	Generally short and medium (1-3 years)	Generally long (over 5 years)

COLLAPSE OF BRETTON WOODS

- Greater capital mobility undermines fixed exchange rates
- Inflationary policy in US: undermines central role of US currency and gold peg
- Devaluation of US\$ needed, but politically controversial
- Nixon Administration: forced devaluation in 1971; end to BWS in 1973
- Key factors:
 - Design faults of BWS
 - Lack of political support in key states (USA, Europe)

AFTER BRETTON WOODS

- Move towards flexible exchange rates
- Major advantage: allows countries to prioritise domestic policy objectives (e.g. inflation; employment)
- But: fluctuations and greater instability
- Europeans favour fixed rates (higher trade dependency): move towards European monetary system (EMS), later European monetary union (EMU)

MILESTONES OF THE EUROPEAN MONETARY UNION

- 1958 convertibility in export and import (in frame of Bretton-Woods system)
- 58 − 68 − matching the fiscal policy (mainly indirect taxes)
- 68-78 matching the exchange rates
- o 69 − Werner-plan − towards to monetary union − failure
- \circ 1971 1975 Currency snake pegged in $\pm 2,25\%$
- o 1975 − basket currency − ecu
- 1979 European Monetary System every currency pegged in ±
 2.25 against ecu; European Monetary Cooperation Fund
- o 1989 Delors-plan
- 1992 Maastricht-treaty
- 1994 full convertibility
- 1999 introduction of euro as bank money
- 2002 introduction of euro as bank note

Consultation

