Open Economy

And it may be said without exaggeration that the great extent and rapid increase of international trade, in being the principal guarantee of the peace of the world, is the great permanent security for the uninterrupted progress of the ideas, the institutions, and the character of the human race.

John Stuart Mill (1848) - Principles of Political Economy



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GDP in the CR in 2014 in mil. CZK (expenditure method) (data source: www.czso.cz)



Structure of the International trade in the Czech Republic



Structure of the International trade in the Czech Republic





Exports, total (2015, mil. CZK)	3 582 803	
Developed market economies	3 256 166	90,9 %
European Union	2 988 190	83,4 %
EFTA	74 181	2,1 %
Other developed market economies	193 795	5,4 %
Developing economies	158 504	4,4 %
European transition economies	18 594	0,5 %
Commonwealth of Independent States	102 347	2,9%
Other	44 436	1,2 %
Unspecified	2 756	0,1 %

	Territorial Stru	cture	
	Exports (2015.mi	.CZK)	
	Germany	1 168 838	32,6 %
	Slovakia	320 737	9,0 %
	Poland	210 914	5,9 %
	United Kingdom	187 473	5,2 %
	France	181 135	5,1 %
	Austria	147 923	4,1 %

Italy	135 165	3,8 %
Hungary	104 208	2,9 %
Netherlands	97 988	2,7 %
Spain	93 036	2,6 %
USA	84 803	2,4 %
Belgium	82 633	2,3 %

Russia	71 601	2,0 %	
Switzerland	56 909	1,6 %	
Sweden	52 925	1,5 %	
Romania	45 562	1,3 %	
Turkey	43 400	1,2 %	
China	41 145	1,1 %	
Denmark	34 322	1,0 %	
Japan	19 430	0,5 %	

Imports, total (2010)	2 411 556	
Developed market economies	1 722 116	71,41%
European Union	1 527 883	63,36%
Eurozone	1 212 372	50,27%
EFTA	47 264	1,96%
Other developed market economies	146 969	6,09%
Developing economies	187 182	7,76%
European transition economies	7 396	0,31%
Commonwealth of Independent States	184 682	7,66%
Other 2)	301 288	12,49%
Unspecified	8 893	0,37%

Imports, total (2015, mil. CZK)		3 158 460	
Developed market economies		2 288 455	72.5 %
European Union		2 073 111	65,6 %
EFTA		42 318	1,3 %
Other developed market econor	nies	173 026	5,6 %
Developing economies		254 057	8,0 %
European transition economies		14 715	0,5 %
Commonwealth of Independent Sta	ates	157 628	5,0 %
Other		423 087	13,4 %
Unspecified		20 518	0,6 %

Imports (2015, mil. CZK)

Germany	829 515	26,3 %
China	407 789	12,9 %
Poland	249 086	7,9 %
Slovakia	164 007	5,2 %
Italy	128 128	4,1 %

Russia	98 191	3,1 %
France	97 665	3,1 %
Austria	95 582	3,0 %
Netherlands	83 900	2,7 %
Korea	76 427	2,4 %
Hungary	75 533	2,4 %
USA	74 599	2,4 %
United Kingdom	66 093	2,1 %

Country	
Balance, total (2015, mil. CZK)	
China	- 366 644
France	83 470
Japan	-32 367
Germany	339 323
Netherlands	14 088
Poland	-38 172
Austria	52 341
Russian Federation	-26 590
Slovakia	156 730
United Kingdom	121 380
United States	10 204

Balance of payments, Czech Republic, 2014 In mil. of CZK

	(+)	(-)	Balance	Notes
A. Current Account	3794720,9	3768621,4	26099,5	
Trade balance			238893,7	
Exports	3043200,1			
Imports		<mark>2804306,4</mark>		
Balance of services			<mark>55877,4</mark>	NX = 294771,1
Credit	522039,3			X = 3565239 M = 3270468
Debit		466161,9		
Income balance (n.f.p.)			-258962,8	
Credit	149657,2			
Debit		408620,0		
Current transfers (n.f.t.)			-9708,7	
Credit	79824,4			
Debit		89533,1		
B. Capital Account			32170,0	
Credit	32305,4			
Debit		135,5		
C. Financial Account	137659,7	118546,4	<u>25159,6</u>	CR imported capital (NCF is negative)
Direct investment			133632,6	
Abroad (export of capital)		-32228,8		
In the CR (import of capital)	101403,8			
Portfolio investment			-90268,9	
Assets		76559,2		
Liabilities	-13709,7		C 0 4 C 0	
Other is vested ast			6046,2	
Acceta		74016 0	-24250,3	
Liabilities	4006E 6	74216,0		
D. Net errors and	43303,0		-10205 4	
omissions, valuation changes			-10306,4	
E. Change in reserves (-increase)			-73122,7	(E in new BP part of C)

- The key macroeconomic difference between open economy (OE) and closed economy (CE):
- Spending need not equal output of goods and services.
- b/c a country can spend more than it produces by borrowing from abroad,
- or it can spend less than it produces and lend the difference to foreigners.
- Saving need not equal investment.

- In <u>CE</u>, all output is sold domestically:
- $\succ Y = C + I + G$

In <u>OE</u>, some output is sold domestically and some is exported to be sold abroad:

- $Y = C^{d} + I^{d} + G^{d} + X$ Expenditures on an open economy's output Y
- > Y ... output produced in OE
- C^d ... consumption of domestic goods and services
- > I^d ... investment in domestic goods and services
- G^d ... government purchases of domestic goods and services
- > X ... exports of domestic goods and services

• $Y = C^d + I^d + G^d + X$



- C^d + I^d + G^d ... domestic spending on domestic goods and services
- X ... foreign spending on domestic goods and services.
- However, people, firms and government do not spend their incomes just on goods domestically produced !

- C (total consumption) = $C^d + C^f$
 - C^f ... consumption of foreign goods and services
- I (total investment) = I^d + I^f
 - I^f ... investment in foreign goods and services
- G (total government purchases) = G^d + G^f
 - G^f ... government purchases of foreign goods and services
- $(C + I + G) = (C^{d} + I^{d} + G^{d}) + (C^{f} + I^{f} + G^{f})$
- Domestic spending on all goods and services = domestic spending on domestic goods and services + domestic spending on foreign goods and services

The Open Economy

$$Y = C^{d} + I^{d} + G^{d} + X$$

$$C = C^{d} + C^{f} \quad | = |^{d} + |^{f} \quad G = G^{d} + G^{f}$$

$$Y = (C - C^{f}) + (I - I^{f}) + (G - G^{f}) + X$$

$$Y = C + I + G + X - (C^{f} + I^{f} + G^{f})$$
Expenditure on imports (M)

$$Y = C + I + G + X - M$$

$$Y = C + I + G + (NX)$$
Net exports

- Y = C + I + G + NX
- > NX = Y (C + I + G)
- Net Exports = Output Domestic Spending
- If output exceeds domestic spending, a country exports the difference: net exports are positive (X>M).
- If output falls short of domestic spending, a country imports the difference: net exports are negative (X<M).</p>
- In an open economy, domestic spending need not equal the output of goods and services.

International capital flows

- **We already know that:** (If we neglect Net Factor Payments (n.f.p.) and Net Foreign Transfers (n.f.t.)
- \succ NS = S + BS
- > NS = (Yd C) + (TA TR G)
- > NS = (Y TA + TR C) + (TA TR G)
- > NS = Y C G
- > Because: Y = C + I + G + NX => Y C G = I + NX
- > Then: NS = I + NX (national saving = national investment)
- > NS I = NX



NS- I < 0 => NCF<0 => NX < 0 ... Country is a net importer of capital (i.e. net borrower) and also of goods and services (X < M)

NS- I = 0 => NCF = 0 => NX = 0 ... Export and import of capital are equal as are exports and imports of goods and services (X = M)



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