To Convergence and Beyond: Human Capital, Economic Adjustment and a Return to Growth

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Introduction



- Experience of growth over the last years
- Adjusting to the current crisis
- Return to Growth?

The Convergence Process & Human Capital



- Convergence has happened
- Different histories on human capital
- Role of human capital in the convergence process
- Lessons for the future?

Data



- EU Labour Force Survey
 - Quality and comparability
- US Bureau of the Census
- OECD Education at a Glance
 - Returns to Education
- Ameco database







GDP per head relative to EU15, New Member States, PPS

Decomposition of Growth







EU15, Educational Attainment



USA, Educational Attainment





Investment in Human Capital, 2010



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Human capital: channels affecting economy

- Increases productivity
 - Assume labour paid marginal product
 - Measured by private returns to education
- Increases labour force participation
 - Affects returns from paid work relative to alternative
 - Affects labour force, hence employment assumptions
- Reduces unemployment
 - Replacement rate high for those with lower education
 - Affects employment assumptions















- Increasing educational attainment important
 - Accounts for 1 to 2.5 percentage points of growth
 - Lowest in countries with historically good education
- Productivity (excluding education)
 - Biggest effects in new member states catching up
 - Also important in Scandinavia
- Rising education still significant after 2010 for some countries

Adjusting to the Crisis



- Best indicator of growing problems was the BOP
 - Spain and Ireland had government surpluses but both had large and rising BOP deficits
- Once crisis hit both BOP and Government must adjust
- Look at some past large adjustments



Previous Crises

		Balance of payments		Exports	Imports	GDP	Effective
		as % of GDP					Exchange rate
Country	Years	Initial	Change	Change	Change	%	%
Austria	1980-85	-4.5	3.4	3.4	0.1	7.4	5.3
Finland	1989-93	-5.0	3.5	8.4	2.0	-9.5	-24.8
UK	1989-94	-4.9	3.9	2.8	-0.4	6.1	-8.8
Belgium	1980-85	-3.9	4.3	13.4	9.3	4.8	-15.1
Denmark	1986-90	-5.5	5.9	4.1	-1.8	2.3	8.2
Portugal	1982-86	-14.5	13.0	6.6	-7.5	4.9	-44.5
Ireland	1981-87	-13.3	13.1	9.3	-9.2	15.2	-0.3

Previous Crises



- No clear pattern
 - Mostly through higher exports
 - In most but not all cases changes in exchange rate
 - Finland only country with financial crisis
- External environment important
 - Allows adjustment with growth
- Takes 4 to 6 years for quite large adjustments
- Current circumstances different
 - The external environment is universally bleak



		Balance of payments		Exports		Imports	GDP	Exchange rate
		as % of GDP						Effective
Country	Years	Initial	Change	Initial	Change	Change	%	%
Portugal	08-10	-12.6	2.8	32	-1.5	-4.4	-1.2	-1.4
Greece	08-10	-16.3	4.6	23	-2.5	-6.9	-6.4	-0.5
Ireland	07-10	-5.5	4.8	80	22.4	12.5	-11.8	1.2
Spain	07-10	-10	5.5	27	-0.6	-5.2	-3.0	0.7
Hungary	08-10	-6.9	8.6	82	4.8	-2.0	-5.6	-8.7
Romania	07-10	-13.6	9.5	29	6.5	-2.0	-1.5	-20.1
Lithuania	07-09	-15.1	17.7	54	0.5	-11.4	-12.2	3.7
Estonia	07-09	-17.2	21.7	68	-2.9	-19.6	-18.3	3.6
Bulgaria	07-10	-25.2	24.3	59	-1.7	-19.5	0.5	1.7
Latvia	07-09	-22.3	30.9	42	1.5	-17.0	-21.4	3.2



- Generally not completed
- Size of export sector matters
- Mainly through cut in import share of GDP
 - Ireland Hungary & Romania exceptions
- Accompanied by big falls in output
 - The channel for reducing imports
 - In turn significantly driven by fiscal policy
- Limited changes in effective exchange rate
 - Hungary and Romania exceptions



		GDP				
		Growth	Investment share of GDP			Unemployment rate
Country	Years	%	Start	End	change	change
Portugal	08-10	-1.2	22.5	19.0	-3.5	3.3
Greece	08-10	-6.4	19.1	14.7	-4.4	0.1
Ireland	07-10	-11.8	26.4	11.3	-15.1	9.1
Spain	07-10	-3.0	30.7	22.5	-8.2	11.8
Hungary	08-10	-5.6	20.6	17.7	-2.9	3.4
Romania	07-10	-1.5	30.2	22.7	-7.5	0.9
Lithuania	07-09	-12.2	28.3	17.1	-11.2	9.4
Estonia	07-09	-18.3	34.4	21.6	-12.9	9.1
Bulgaria	07-10	0.5	28.7	23.5	-5.2	3.3
Latvia	07-09	-21.4	33.7	21.5	-12.2	11.1



- Some countries with BOP problems had very large investment shares of GDP
 - Reflected building booms
- In these countries the adjustment in the BOP occurred through a building bust
 - Ireland, Spain and Baltics
- Consequence: very large rise in unemployment
 - Adjustment costs concentrated on unemployed
- In other countries reduction in imports and hence the BOP through cuts in consumption
 - Very painful for wider population adjustment not complete
- Policy instrument used Fiscal Tightening

A Return to Growth



- Solvency depends on both:
 - Ending borrowing by government and by nation
 - A return to growth
- Different experience on twin deficits
 - Ireland has addressed the BOP but not yet borrowing
 - Portugal and Spain have smaller government borrowing but continuing BOP deficits
 - Implications of progress on one but not both?
- Return to growth: after adjustment?
 - Obstacles?

A Return to Growth



- Return EU economy to growth
- Complete necessary adjustment of domestic imbalances
- European or national banks?
- Improving competitiveness
 - Example: costs of energy infrastructure
- Addressing labour market problems

The Labour Market



- Legacy of high unemployment
 - Return to full employment raise potential output
- Long-term implications of human capital
 - Still significant positive effects for some countries
- The Labour market Addressing underperformance
- Elasticity of substitution of skilled for unskilled
 - If elasticity low, need to grow demand for aggregate labour or reduce supply of unskilled



EU 15, Labour Market, Lower Secondary Education



EU15, Tertiary Education



Conclusions



- Ending the economic crisis in the EU
- Problem of domestic imbalances
 - Must growth await completion of adjustment?
- Growing the tradable sector in some countries
- There is upside potential due to human capital in some of the countries with big problems
 - Could result in higher growth after adjustment