



**REGIONS
& CITIES**

**European Week
Brussels 8-11 October 2018**

A closer look at the dynamics of regional convergence

**How have the regional convergence / divergence
patterns been affected by the free movement of
capital and labour?**



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Different theoretical explanations for regional convergence/divergence patterns

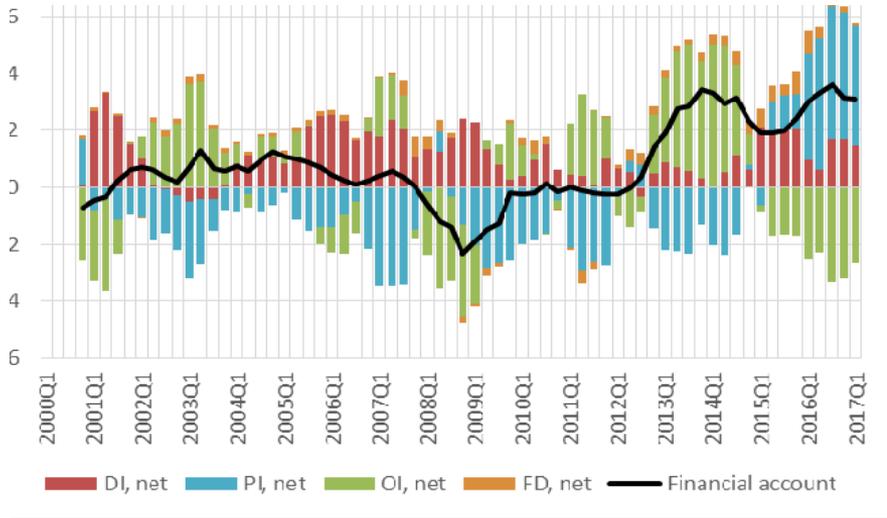
Neo-classical growth theory- Solow growth model
Regional Development theories- Hirschman-Rostow
Development economics- growth by state intervention

Endogenous growth
Capital logic
Dependency, unequal exchange

Not only the amount of capital flow but also the main attributes of the flows of capital matters in convergence/divergence patterns

- *Financial flows by instruments
- *Financial flows by sectors
- * Geographies of financial flows

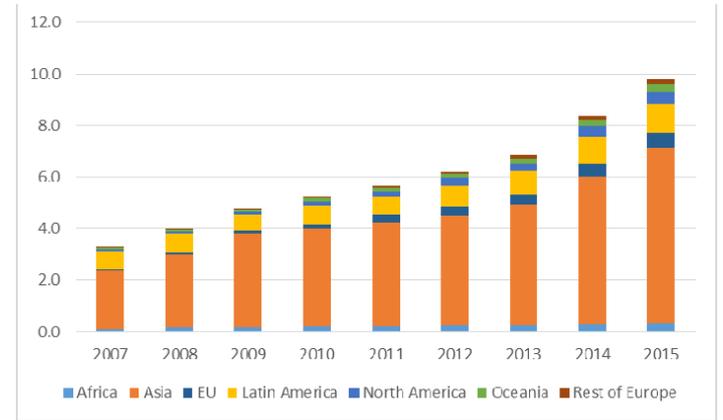
Figure 6: Euro area net financial flows by instrument, % of GDP



In absolute terms, the euro area is now the world's largest exporter of capital.

China has moved from being a net receiver of foreign direct investment to becoming a net exporter.

Figure 37: Stock of Chinese outward FDI, % of Chinese GDP



The euro area plus China and Japan now represent 75 percent of global net savings. In the last two years, the US, together with the UK and some other advanced economies (Canada, Australia), have absorbed the vast majority of these savings.

Inflows to emerging market economies, which attracted a high share of global surpluses up to 2012-13, have receded without resulting in major turbulence.



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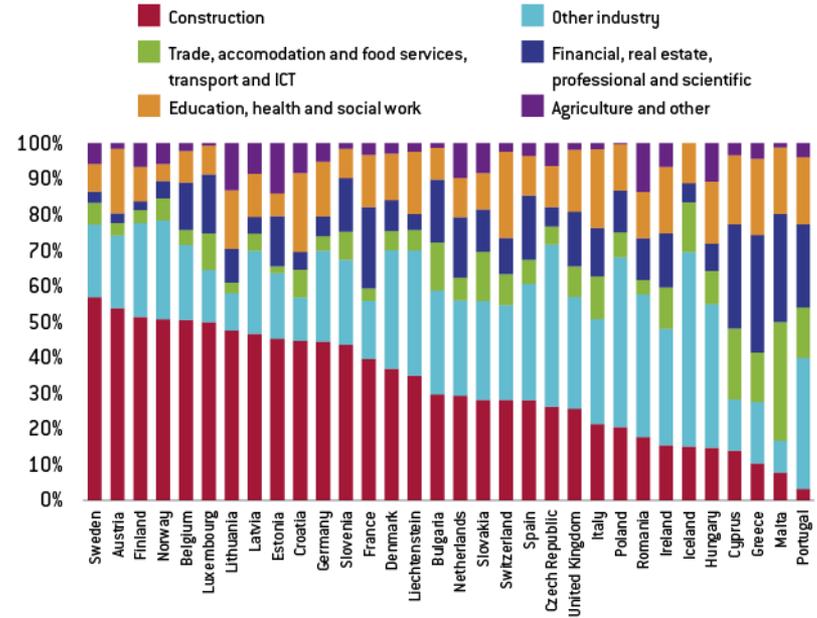
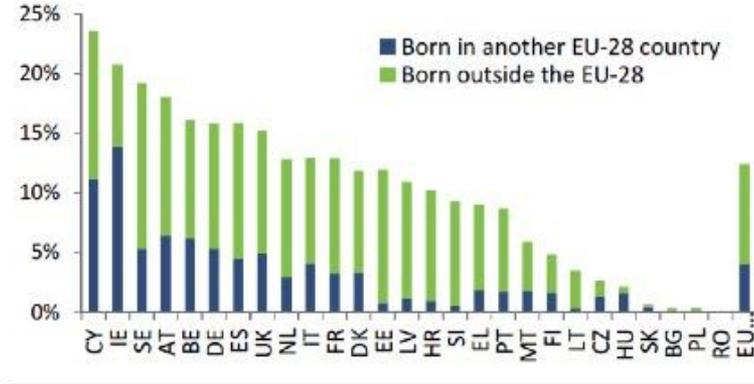
Positive contribution to the
economic competitiveness

Decreasing motivations in
Technological change in
advanced regions
Supporting middle-income
trap

- **Labour**
- Two types of labour
- Skilled-creative-innovative-talented
- Unskilled-migrants (search for low wages-best quality)-flexibility/ short terms contracts/especially in construction

Mobility of labour

Graph 2: Share of working-age population born in other countries, 2013



[People on the move: migration and mobility in the European Union](http://bruegel.org)
bruegel.org 2016

Global capital financing
Implications on regional
convergence/divergence



Increasing importance of global capital financing economic growth: Turkish evidence is quite informative

Rapid growth of external debt in percentage GDP

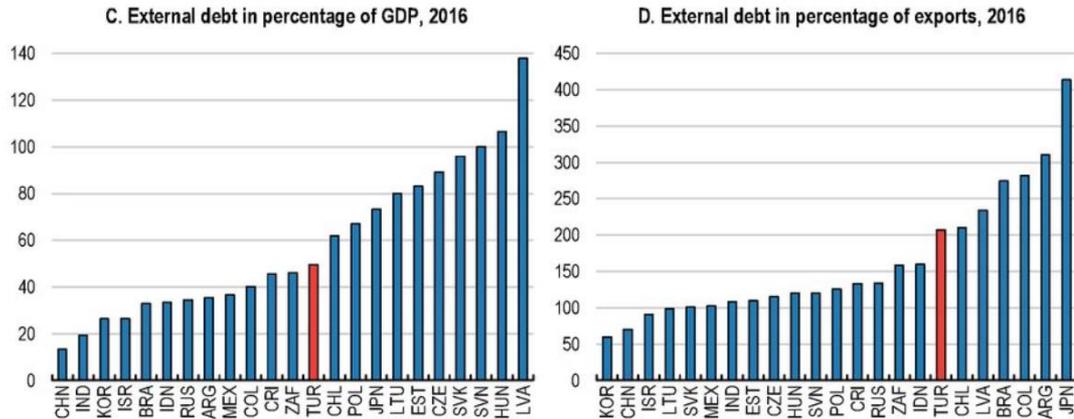
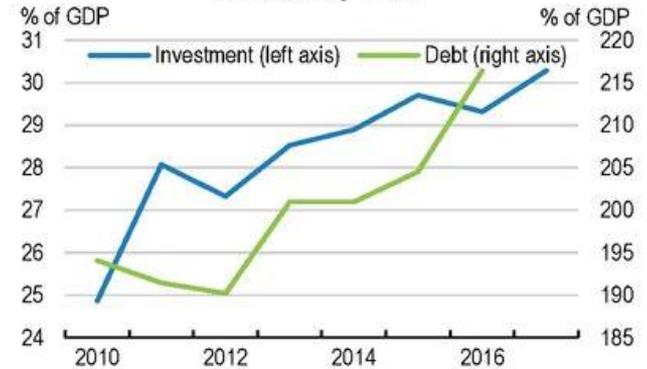


Figure A. Investment is dynamic but increasingly funded by debt

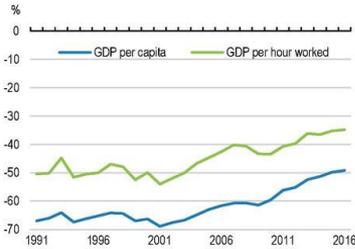


Note: SNA debt definition using consolidated accounts.
Source: OECD (2018), OECD Economic Outlook and OECD Financial Accounts (databases).
StatLink <https://doi.org/10.1787/888933798504>

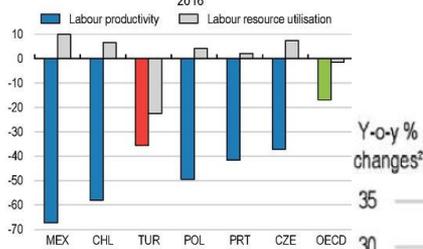
Note: For presentation purposes, Panel C and D exclude advanced European countries that typically have substantially higher external debt ratios.
Source: IMF (2018), Balance of Payments Statistics (database).



A. Major reforms following the 2001 crisis have paid off



B. Percentage difference in labour resource utilisation and labour productivity¹ 2016



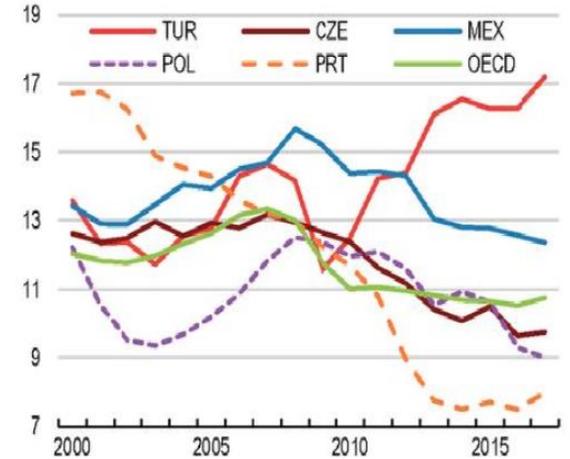
1. Labour productivity is measured as GDP per hour worked. Labour resource utilisation is measured as the total number of hours worked per capita.
 Source: OECD (2018), Economic Policy Reforms 2018: Going for Growth Interim Report, OECD Publishing, Paris, <http://dx.doi.org/10.1787/growth-2018-en>.
 StatLink <https://doi.org/10.1787/888933798599>

Figure 3. Lately, exports and construction have driven growth

A. Real GDP growth



B. Gross fixed capital formation in construction % of GDP





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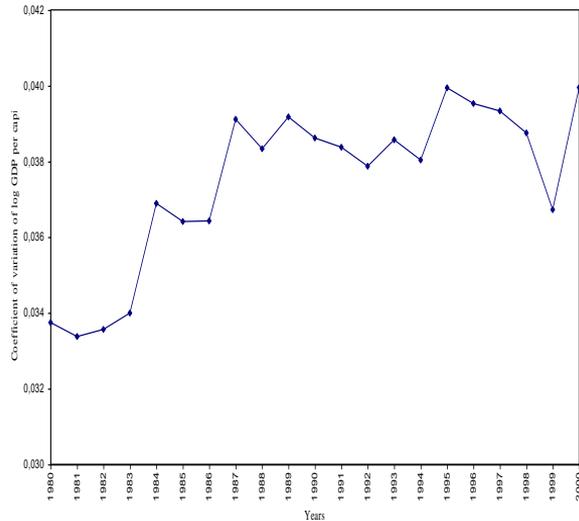
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The implications of growth based on global capital

Divergence in growth period-convergence in recession period

Low productivity low tech specialisation leading to growth of less developed regions.

The low levels of divergence, although most of the capital flow concentrates in advanced regions



Results of Beta Convergence Analysis

Dependent variable: $\Delta Y_t - \Delta Y_{t-1}$				
Independent Variables	Model 1		Model 2 (Club 2)	
	Coefficient	Sig. t (se)	Coefficient	Sig. T (se)
Constant	0.000752	0.7749 (0.002620)	-0.0086	0.047 (0.004)
$\log Y_{t-1} - \log Y_{t-2}$	0.032960	0.0046 (0.011216)	0.041	0.009 (0.015)
R^2	0.122		0.224	
Adjusted R^2	0.108		0.196	
Standard error	0.017		0.013	
d.f.	1		1	
F	8.63588		7.813	
Sig. F	0.0046		0.009	

Year	LnPerCapitaRealGDP	Standard Deviation	Coefficient of Variation
2004	8.6448	0.4148	0.0480
2005	8.7124	0.4132	0.0474
2006	8.7571	0.4197	0.0479
2007	8.7703	0.4206	0.0480
2008	8.7857	0.4182	0.0476
2009	8.7273	0.3988	0.0457
2010	8.8198	0.3738	0.0424
2011	8.8857	0.3789	0.0426
2012	8.9355	0.3647	0.0408
2013	8.9877	0.3684	0.0410
2014	9.0189	0.3704	0.0411

Both external flow of capital and labour mobility is important in regional convergence/divergence

But

The outcome can be different in different context and dynamics.

What about regional policies?