Joint Research Centre

the European Commission's in-house science service



Serving society Stimulating innovation Supporting legislation

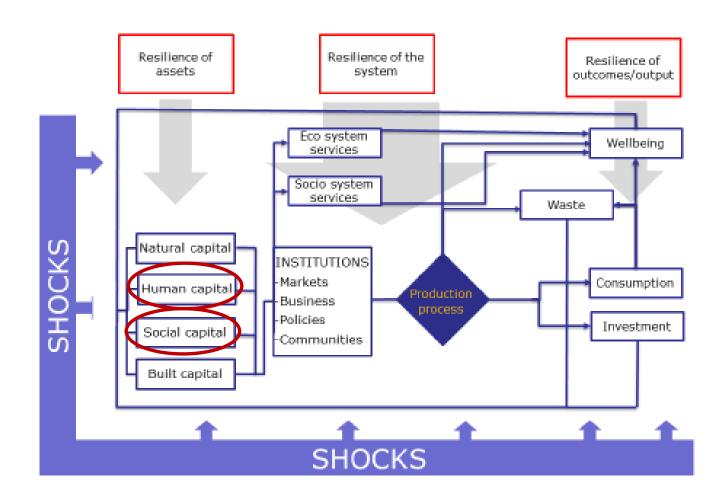
Mobilising Human Capital and Innovation in Europe

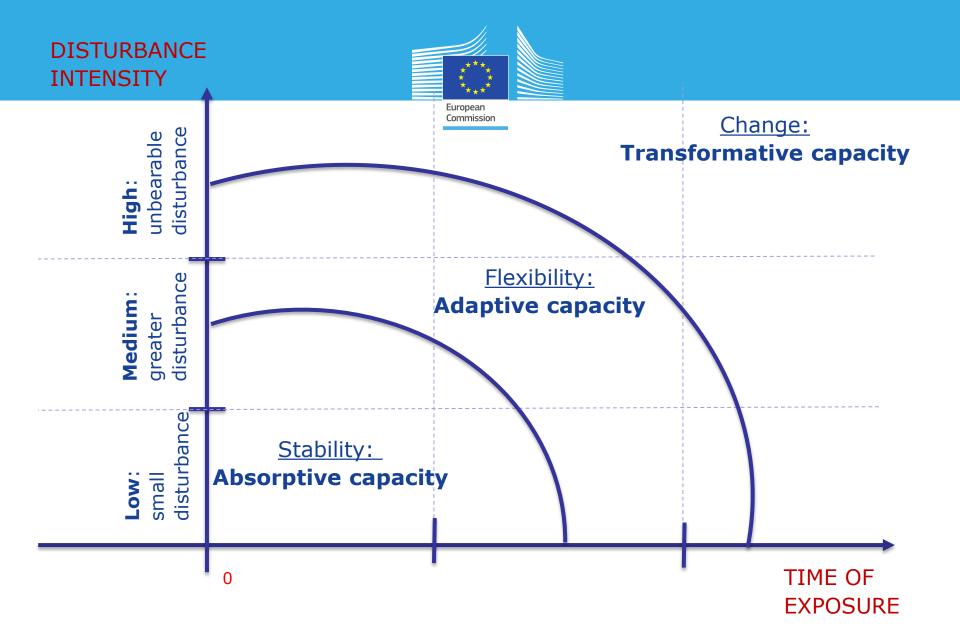
Vladimír Šucha Director General

Aalto University, 25-27 April 2007









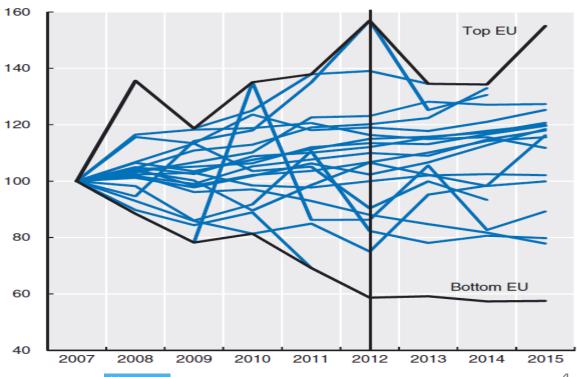


Technology diffusion: how can we combat its sluggishness and speed up adoption?

Cross-country
investments in
intellectual assets
(Gross fixed
capital formation,
intellectual
property products,
index 2007 = 100,
2007-14/2007-15)

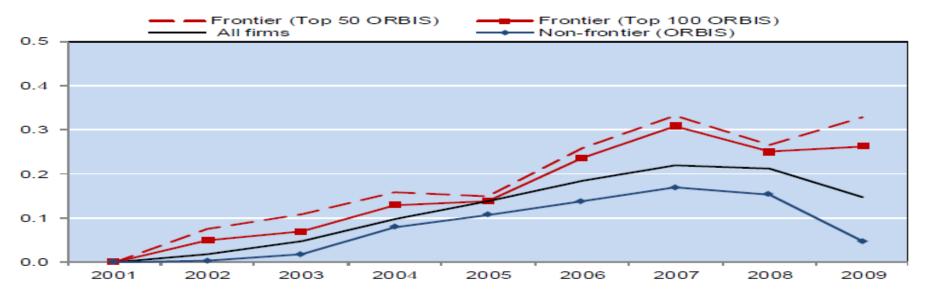
Source: OECD, STI Outlook (2016), p. 171

Panel 2. Intra-European divergences index 2007 = 100, 2007-15

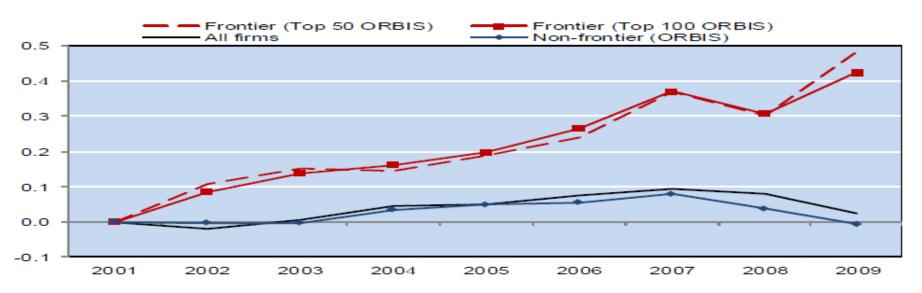


Percentage difference in labour productivity levels from their 2001 values (index, 2001=0)

A. Manufacturing



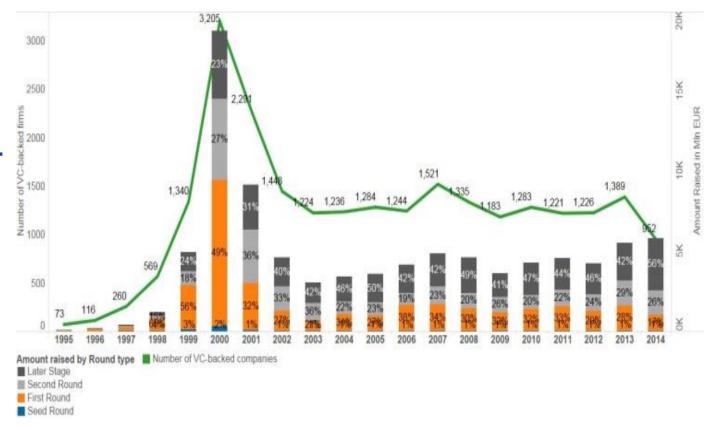
B. Services





Access to finance

VC funding in
Europe have
decreased
significantly after
the dot.com
bubble burst



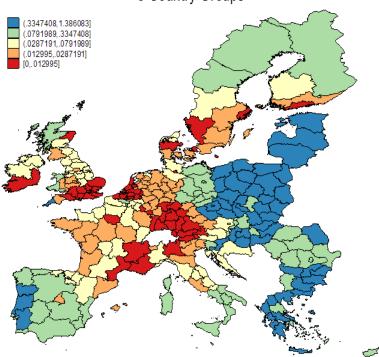
Source: De Prato, G., Nepelski, D., & Piroli, G. (2015)





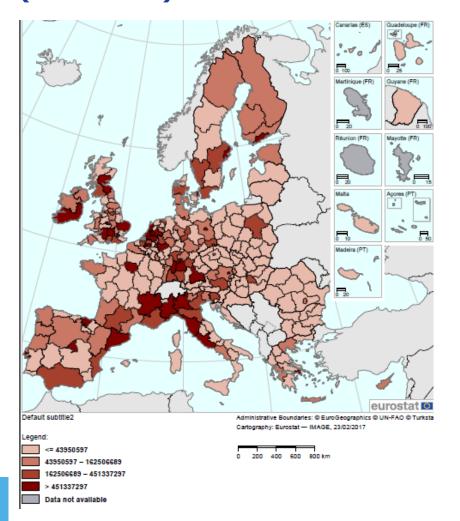
Innovation Divide in Europe

SF-based R&D Intensity as a % of GDP 5 Country Groups



Source: EC-JRC 2016

EU Regions in Horizon 2020 (Oct. 2016)

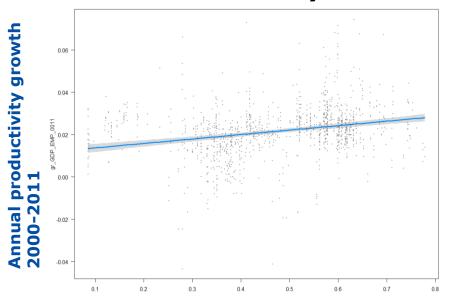






Education: effects on productivity

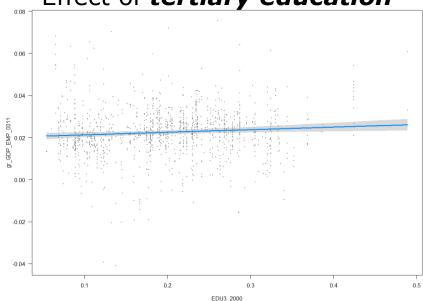
Effect of **secondary education**



1% increase in share of people with **secondary education** implies an a EU average 0.021% increase in productivity.

1% increase in share of people with *tertiary education* implies a EU average 0.012% increase in productivity.

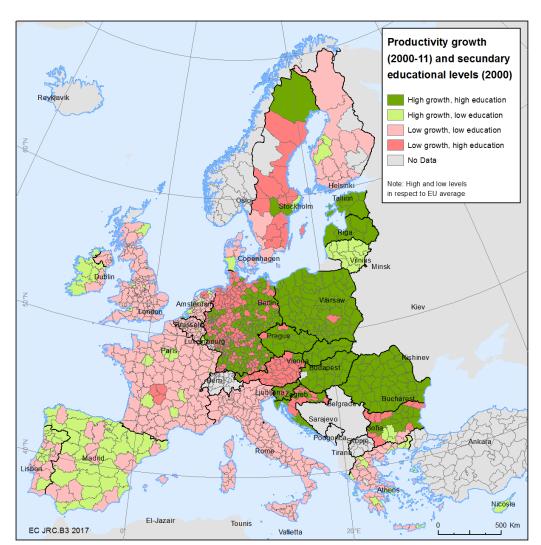
Effect of tertiary education







Relation between productivity growth 2000-2011 and secondary education in 2000

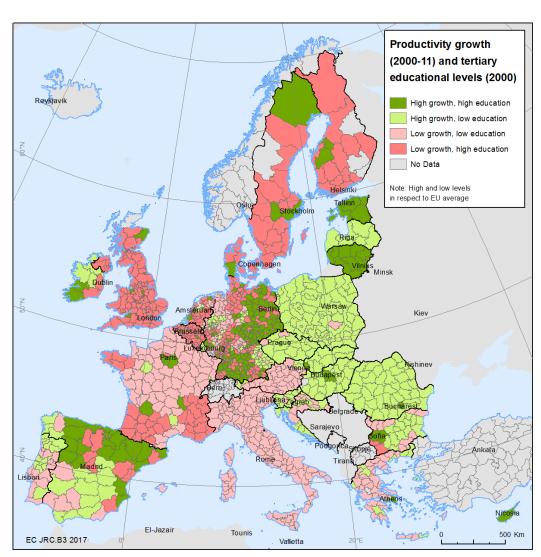


Source: EC-JRC, 2017 on-going project on determinant of local growth





Relation between productivity growth 2000-2011 and tertiary education ir 2000



Source: EC-JRC, 2017 on-going project on determinant of local growth



Economic Gains from Reaching Finland (Percent of GDP)





Aalto, Espoo: A successful example of placebased innovation ecosystem

- Concentration of highly skilled human capital and research infrastructure
- Vision, political commitment and collaborative culture of Helsinki-Uusimaa Regional Council and Espoo City
- Emergence of a strong orchestrating actor: Aalto University, with its
- Local culture of innovation and entrepreneurship
- Focus on the potential and capability of people
- Financial and policy support from central government
- Successful involvement of entrepreneurs





Fostering the European Innovation Ecosystem: How

- Moving towards regional-specific R&D targets
- Role of non R&D innovation in Stairway to Excellence
- Opening up regional structural funds to external actors, supported by Pan-European platforms
- Fewer and simpler EU funding instruments with better aligned rules and increased flexibilities
- Targeting funding towards radical innovations
- Encouraging universities to become major players in the local innovation ecosystems
- Strengthening the role of Social Sciences and Humanities
 (SSH)