



Shift in the paradigm: towards innovation oriented research approaches

Kyiv, Ukraine

Luca Polizzi

Research Policy Officer, European Commission, DG RTD

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The Links Between Research and Innovation

- The economic impact as well as other kind of returns of research is not easy to measure!
- How to trace innovations back to original supporting research? How to show links in the flow money in - value out?
- And though we focus growingly on the shift from research to innovation to foster growth and jobs creations! (FP7 – Horizon 2020 – Horizon Europe)



The Links Between Research and Innovation

What we know:

- Specific framework conditions are critical to support innovation and make it flourish!
- Fertile ground is needed to inform transformative innovation not predicated at the time of research money injection - great discoveries not always in line with the absorption capacity of society/ business/ policy makers (laser technology back in 1940 – only in 1960 took off – today is baseline technology for countless technologies).



The Links Between Research and Innovation

- Long-time frame? Yes!
- The time from research to social impact? Unpredictable!
- We have to wait long from original research findings and their sudden and sometimes unexpected importance to lead to breakthrough innovation. Costs/benefits of transformation!



The Links Between Research and Innovation

- So what is Innovation?

Creativity

Ideas



Discovery
tion

Incremental improving

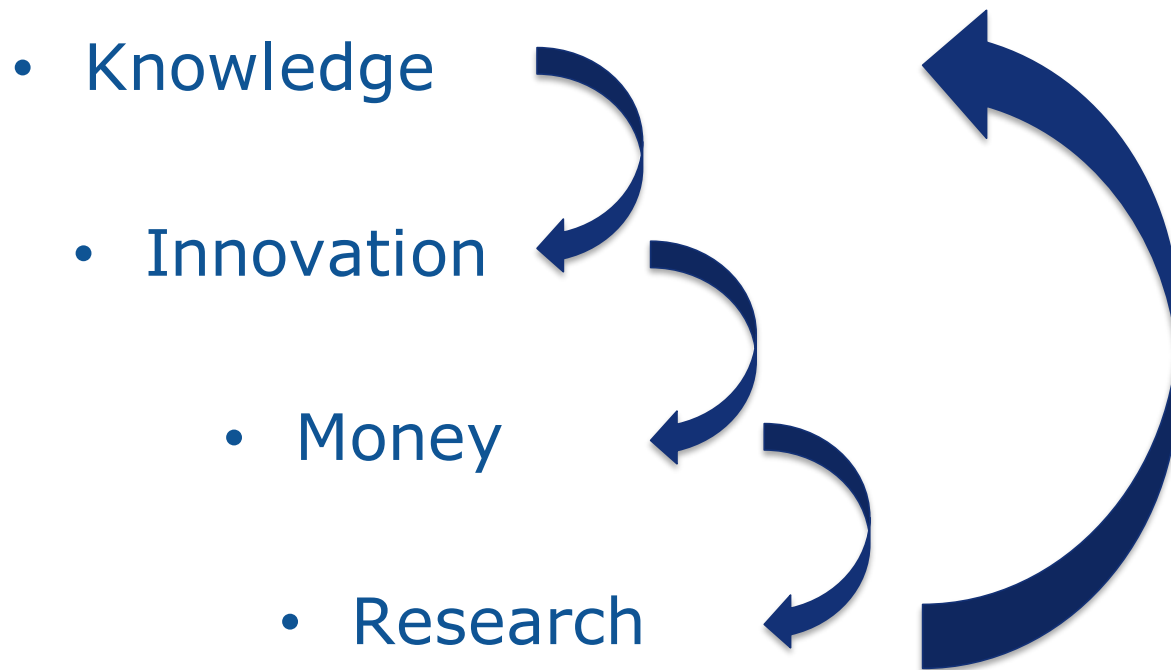


The Links Between Research and Innovation

- Innovation is a process to achieve something that is NEW and able to find a New solution to a well identified problem!
- This solutions can be used several time! (scale up and replication)

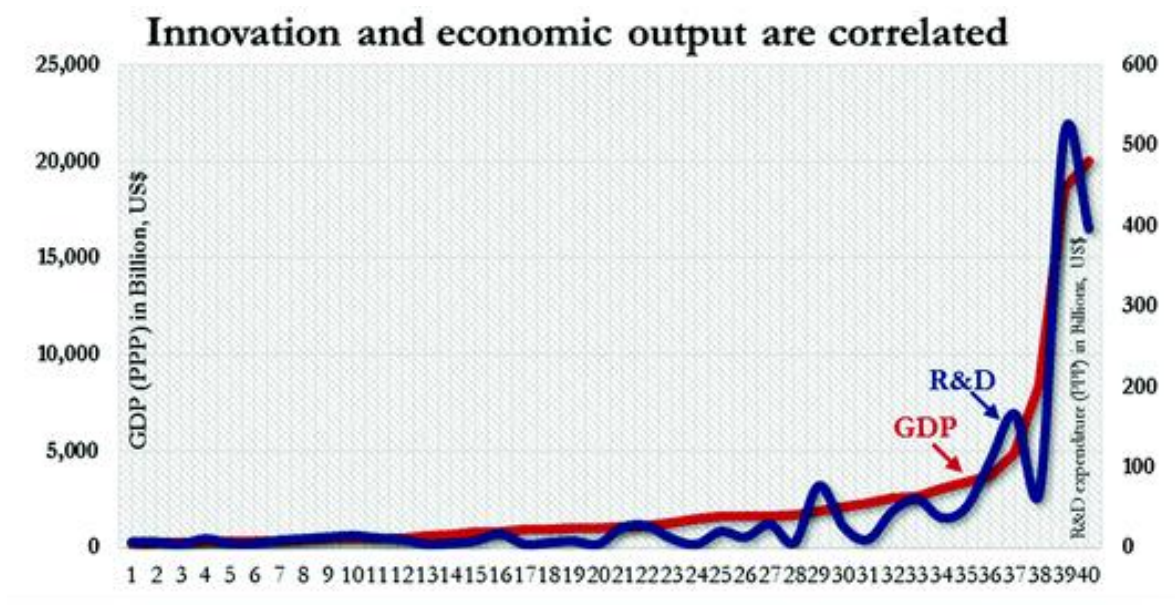


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Why innovation is so important?



From: Global Innovation and Economic Value



The Links Between Research and Innovation

Economics of innovation:

The link between innovation and economic growth has been substantially investigated since the days of Adam Smith in the eighteenth century!

One popular measure of relative innovation intensity is the Global Innovation Index published annually by a consortium consisting of Cornell University, INSEAD, and WIPO among others.



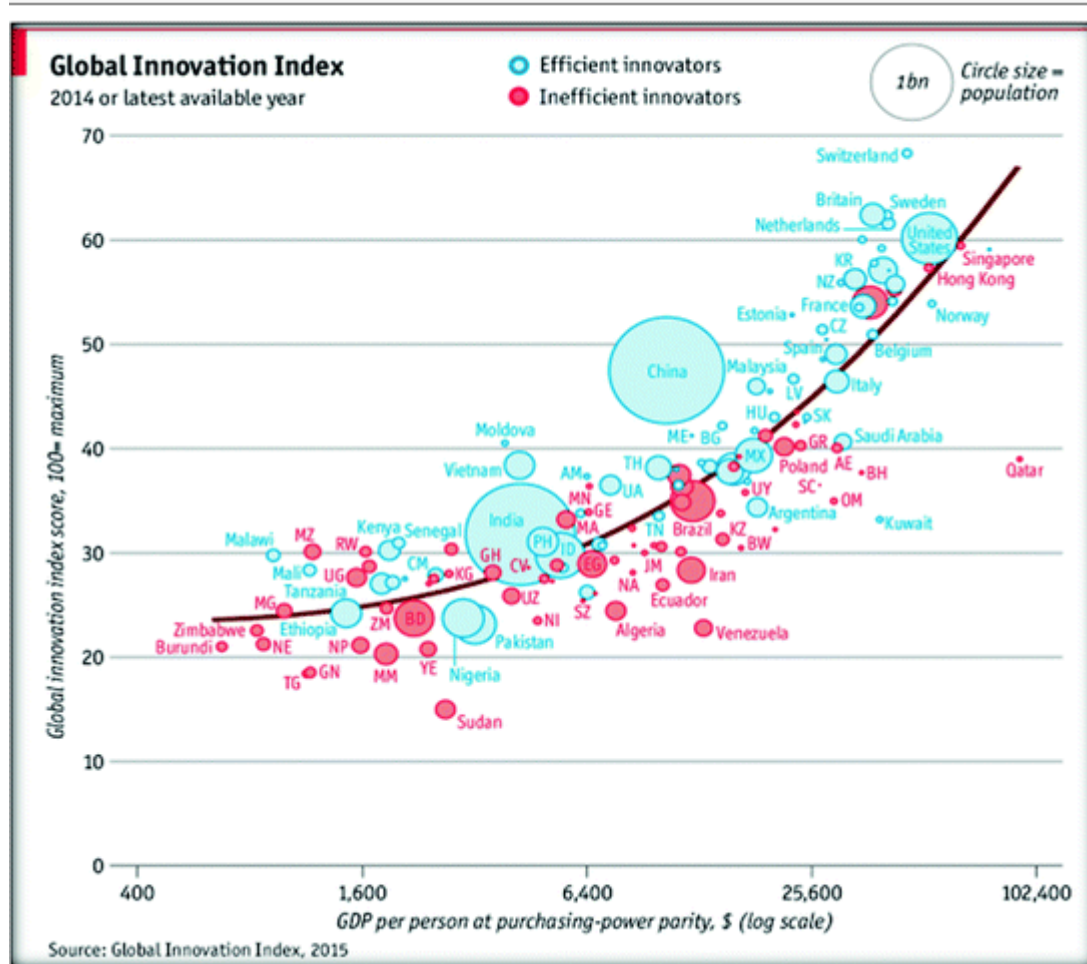
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Index: Rankings of the top 3 universities, patents filed per unit GDP and the number of citations of articles published in refereed journals.

It is estimated that a 1% increase in innovation raises per capita income by 0.05%.



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of Scientists and
Inventors!*

