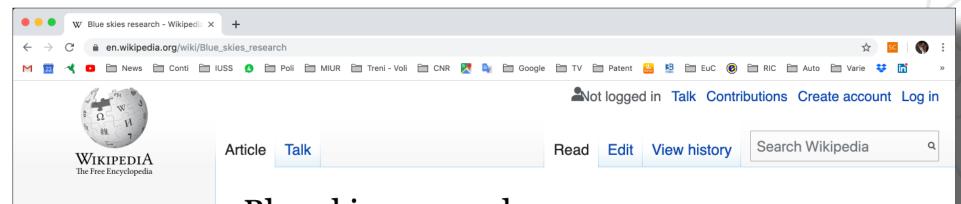


Riccardo Pietrabissa

Introduction to technology transfer

www.iusspavia.it





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Blue skies research

From Wikipedia, the free encyclopedia

Blue skies research (also called **blue sky science**) is scientific research in domains where "real-world" applications are not immediately apparent. It has been defined as "research without a clear goal"^[1] and "curiosity-driven science". It is sometimes used interchangeably with the term "basic research".^[2] Proponents of this mode of science argue that unanticipated scientific breakthroughs are sometimes more valuable than the outcomes of agenda-driven research, heralding advances in genetics and stem cell biology as examples of unforeseen benefits of research that was originally seen as purely theoretical in scope. Because of the inherently uncertain return on investment, blue-sky projects are politically and commercially unpopular and tend to lose funding to more reliably profitable or practical research.^[3]

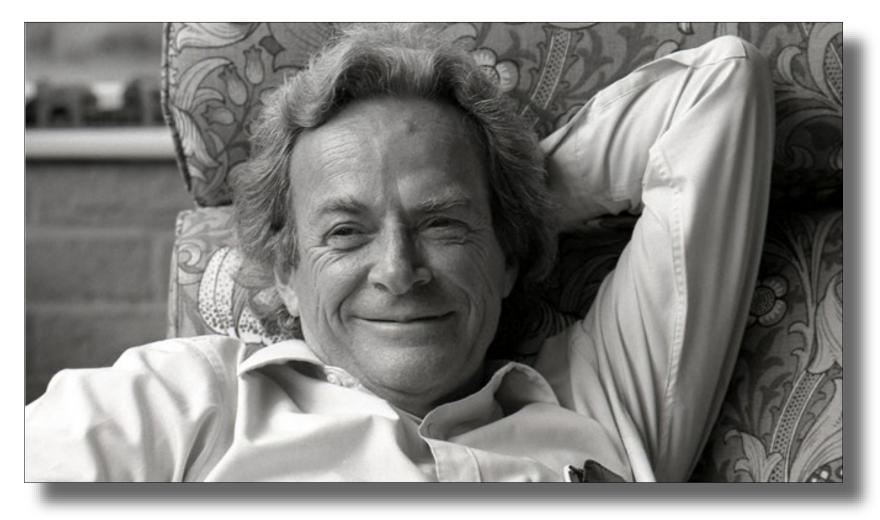
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1 History



...application is not a motivation for researchers, but is among the consequences







Richard Feynman Nobel Prize in Physics 1965

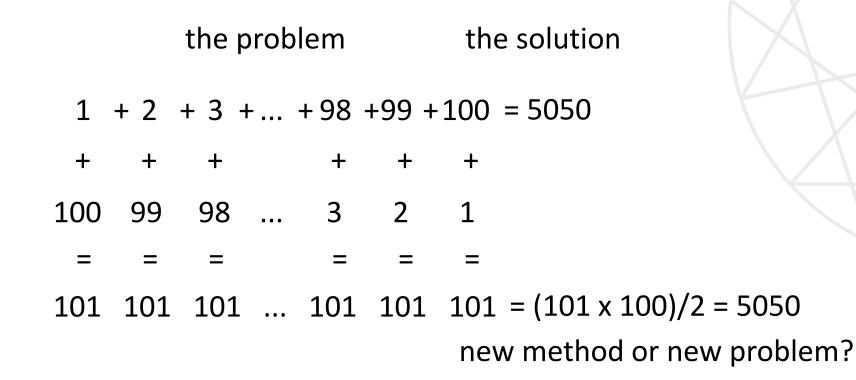
"Physics is like sex: sure, it may give some practical results, but that's not why we do it."



Johann Carl Friedrich Gauss (1777 – 1855) has been a German mathematician, astronomist and physicist that gave fundamental contribution to manifold fields of science.





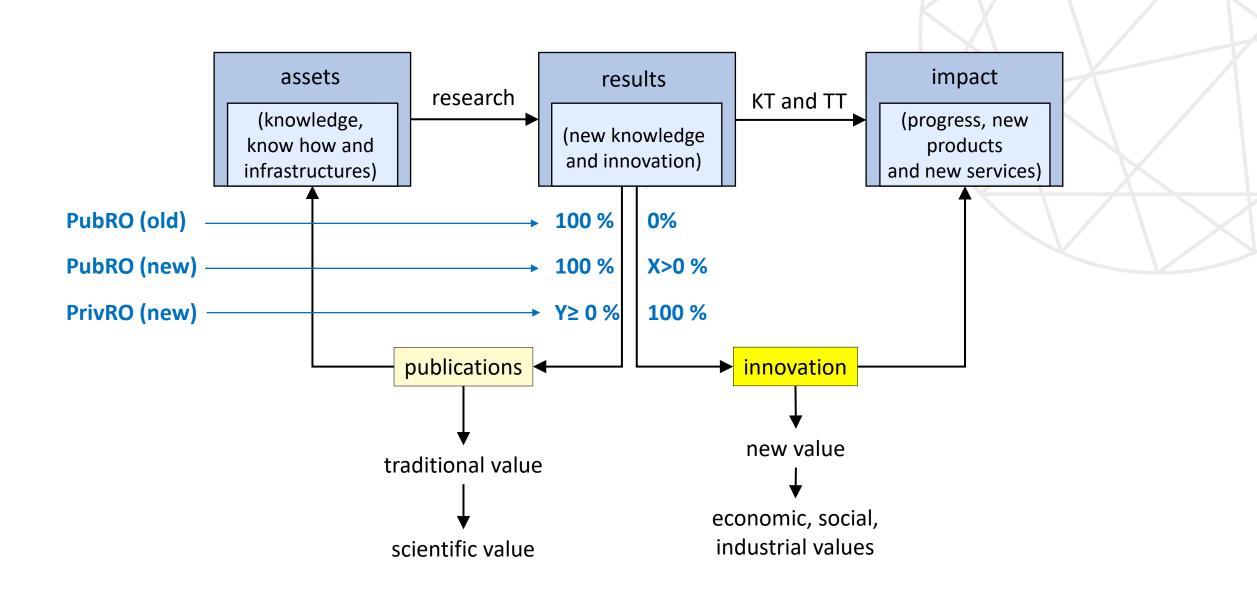


the generalisation – new knowledge

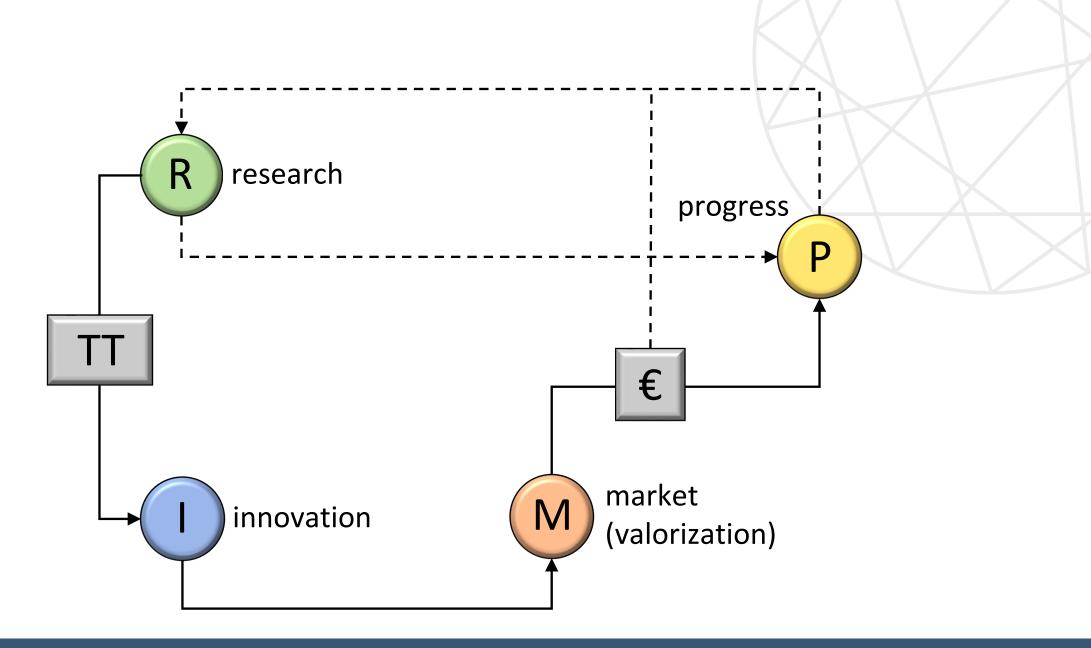
$$\sum_{n=1}^{i} n = \frac{(i+1) \times i}{2}$$

$$\sum_{n=a}^{b} n = (a+b) \times (b-a+1)/2$$

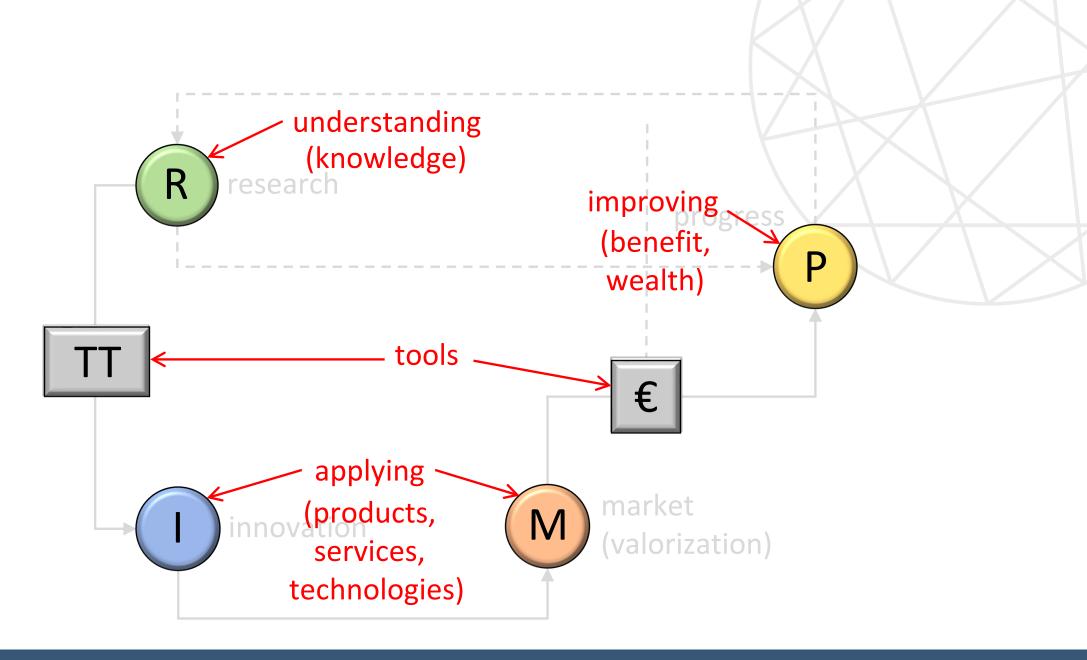




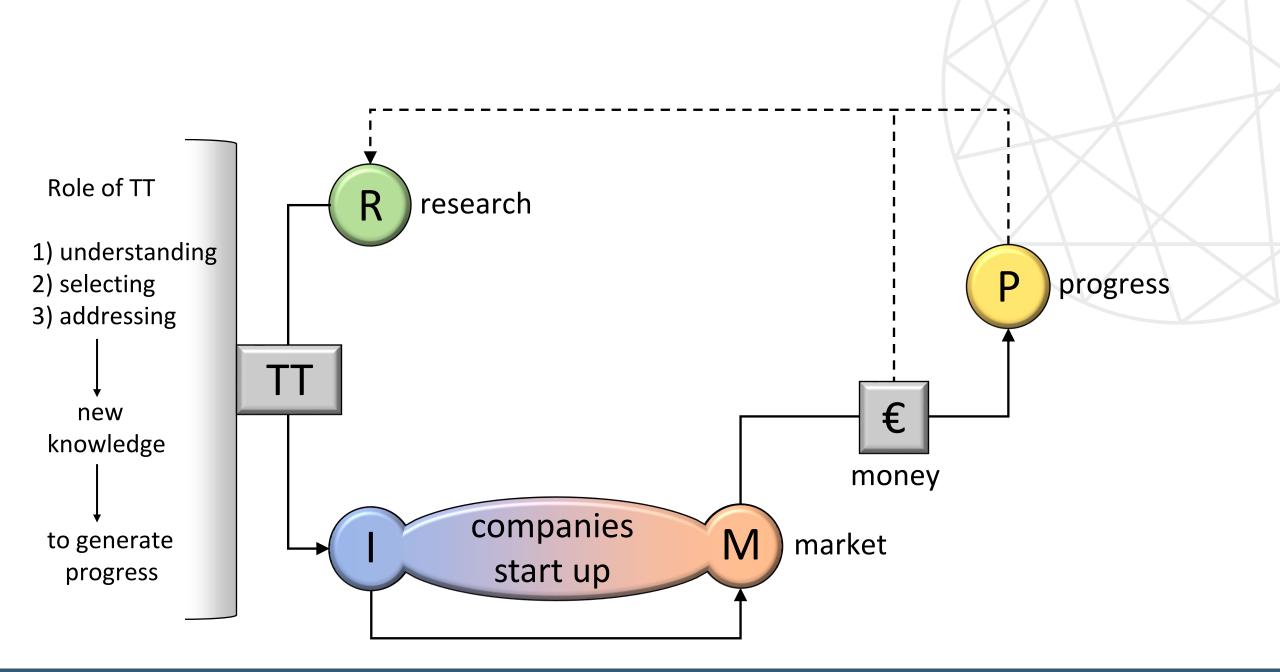




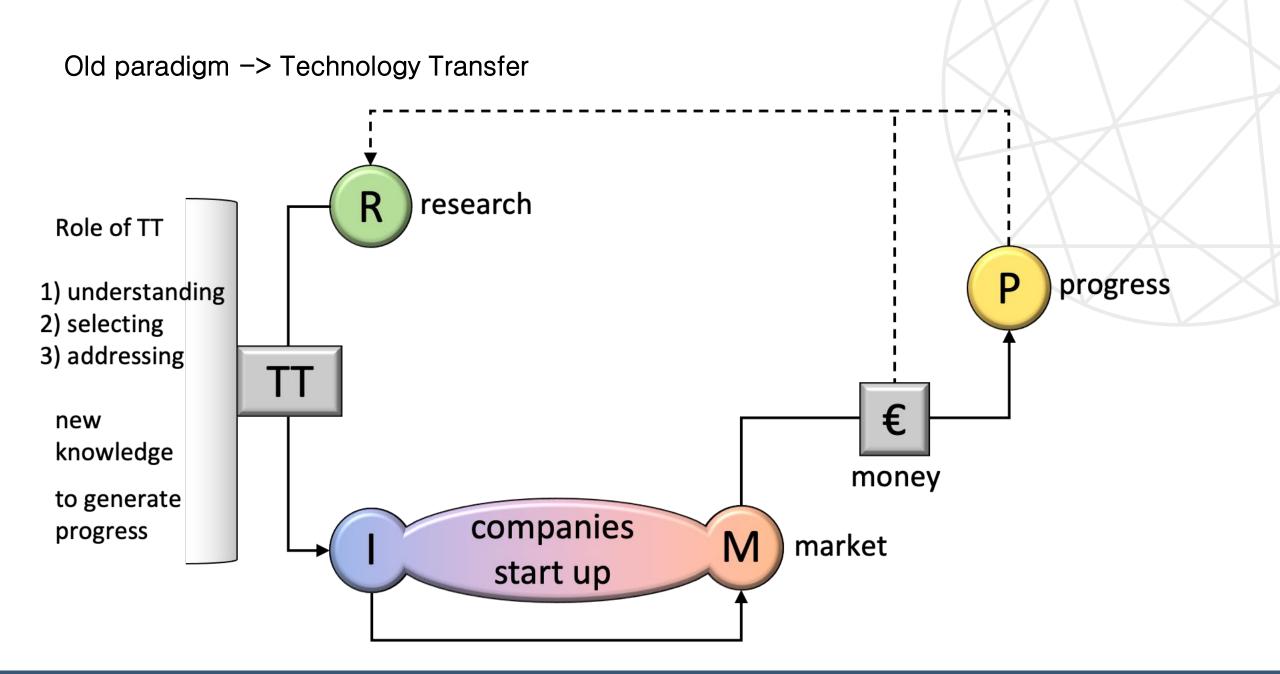






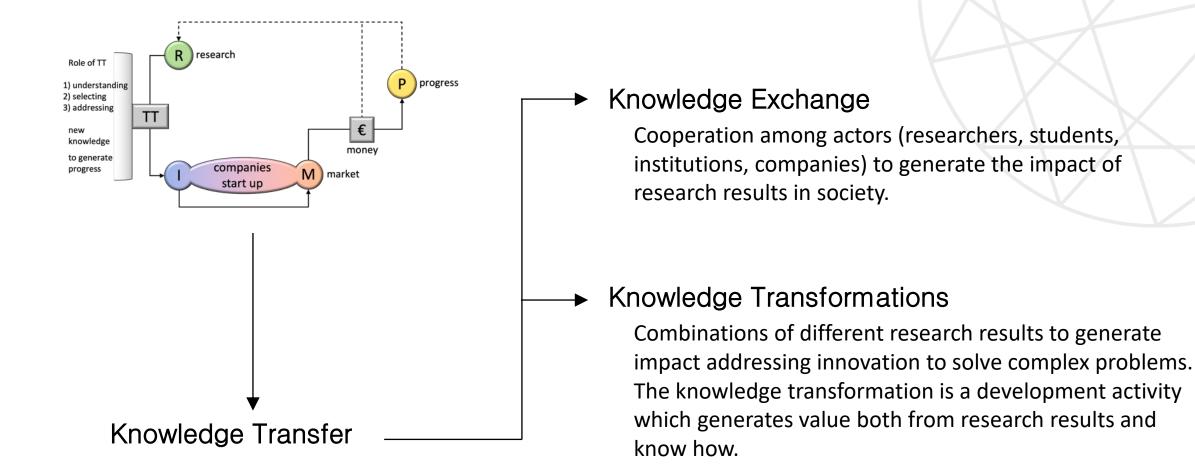




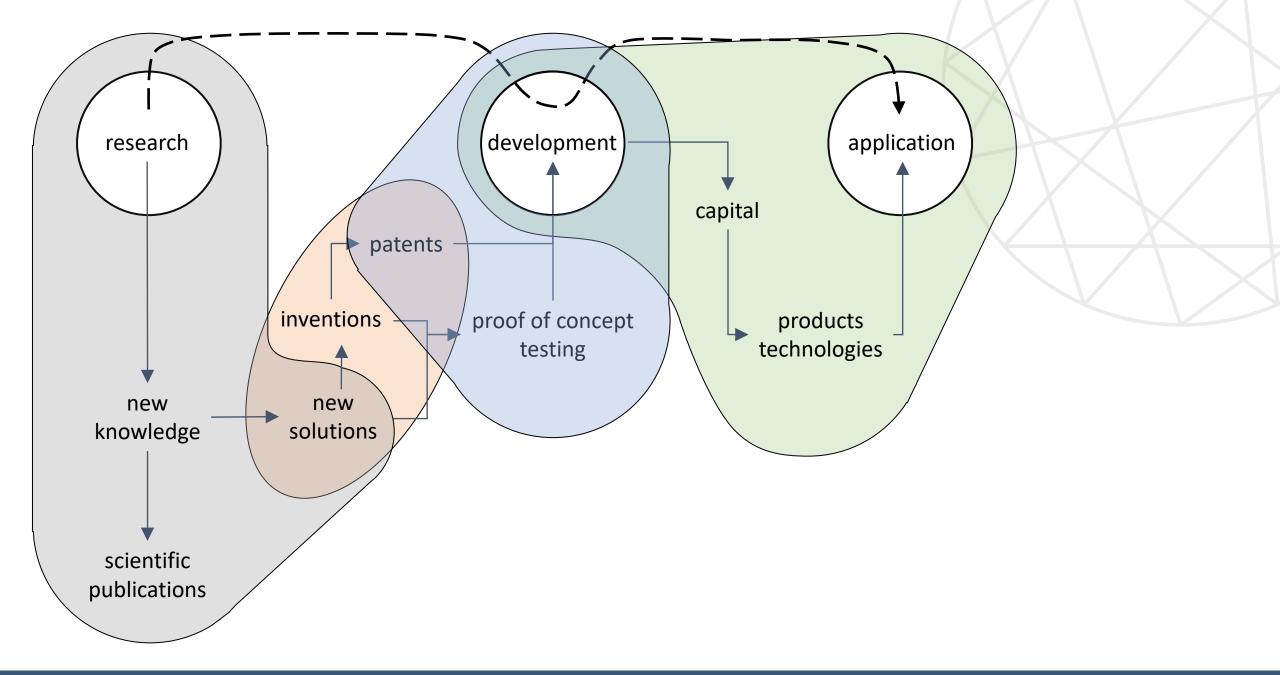




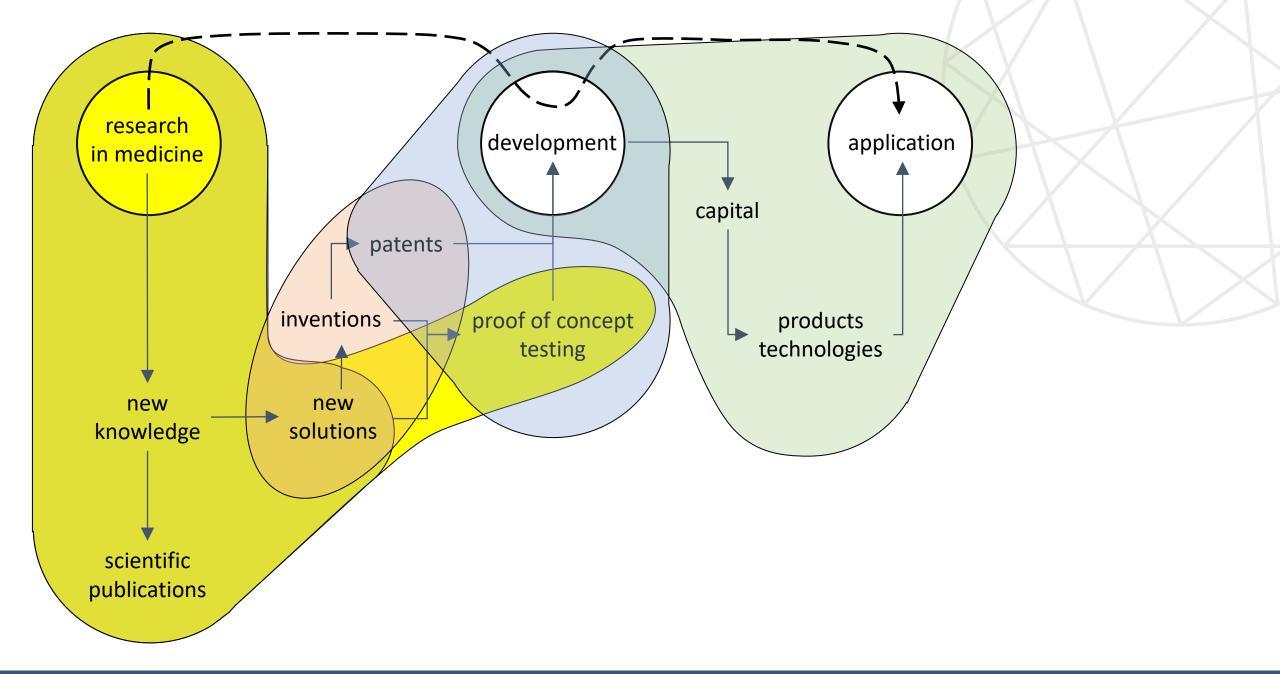
Old paradigm -> Technology Transfer









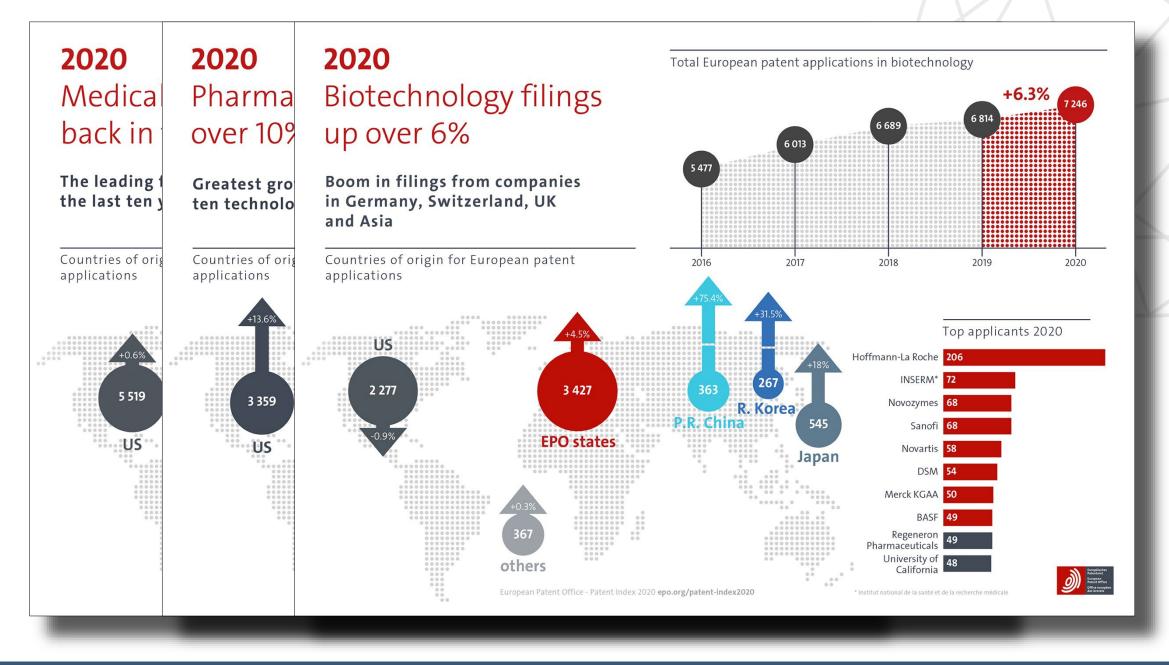








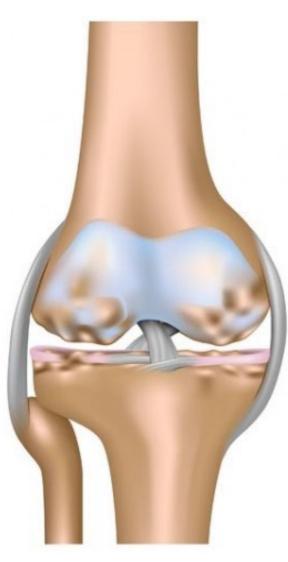








joint prosthesis standard technology



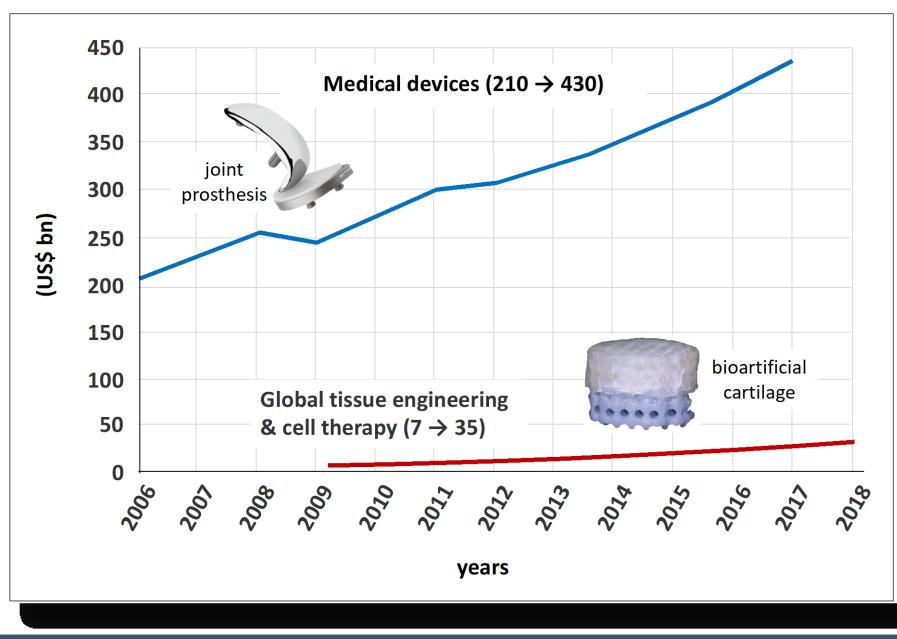
osteoarthritic knee



bioartificial cartilage tissue engineering



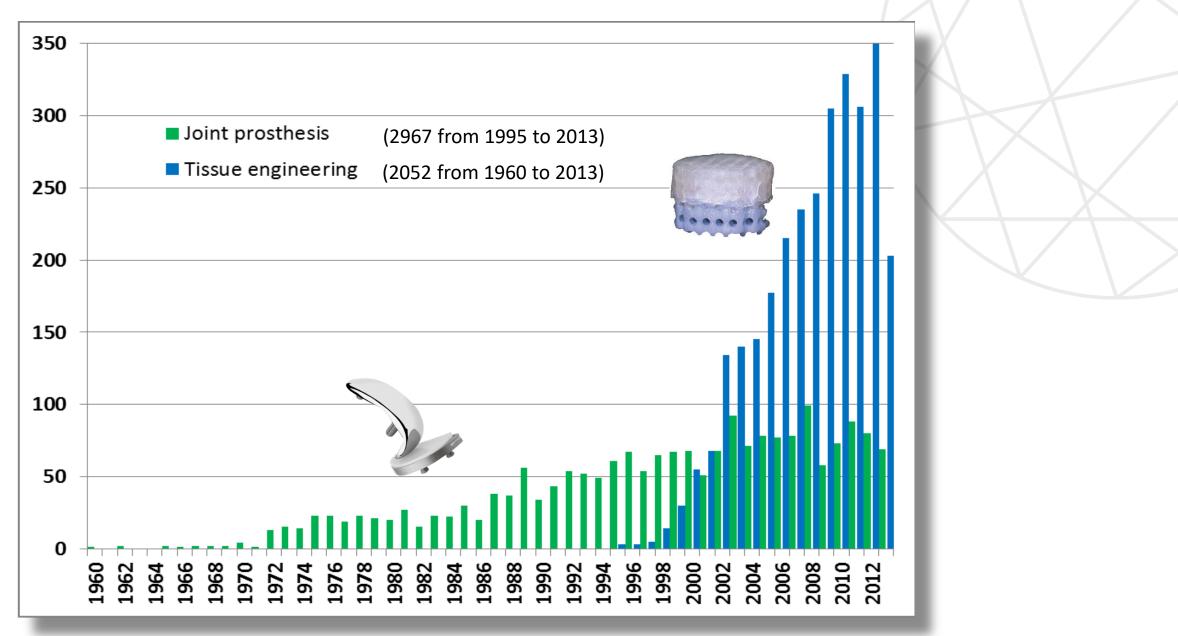
market trends



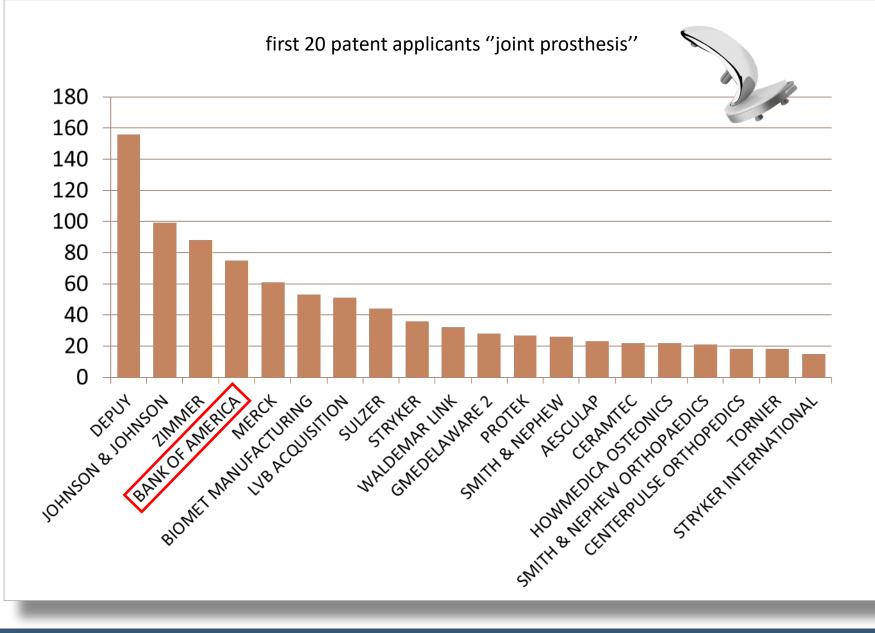




patent trends

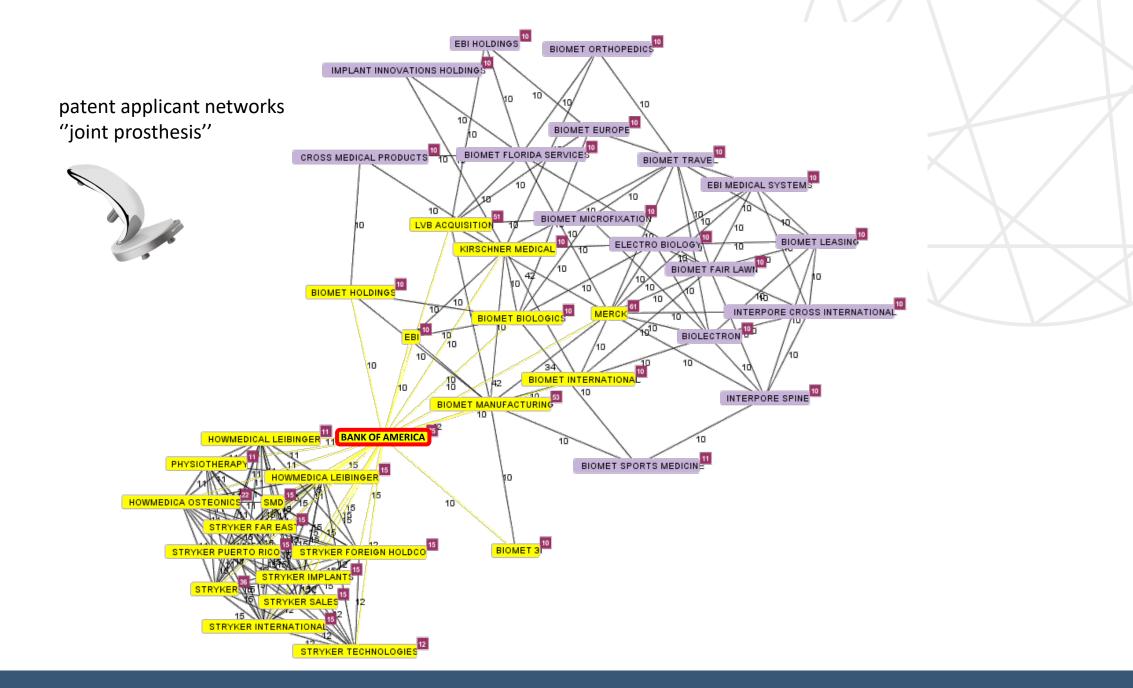


patent applicants



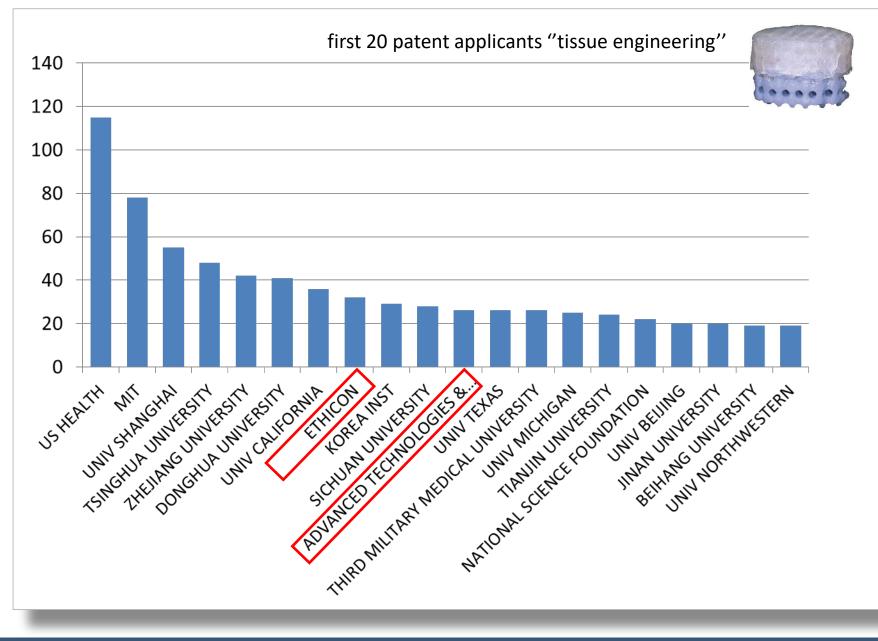




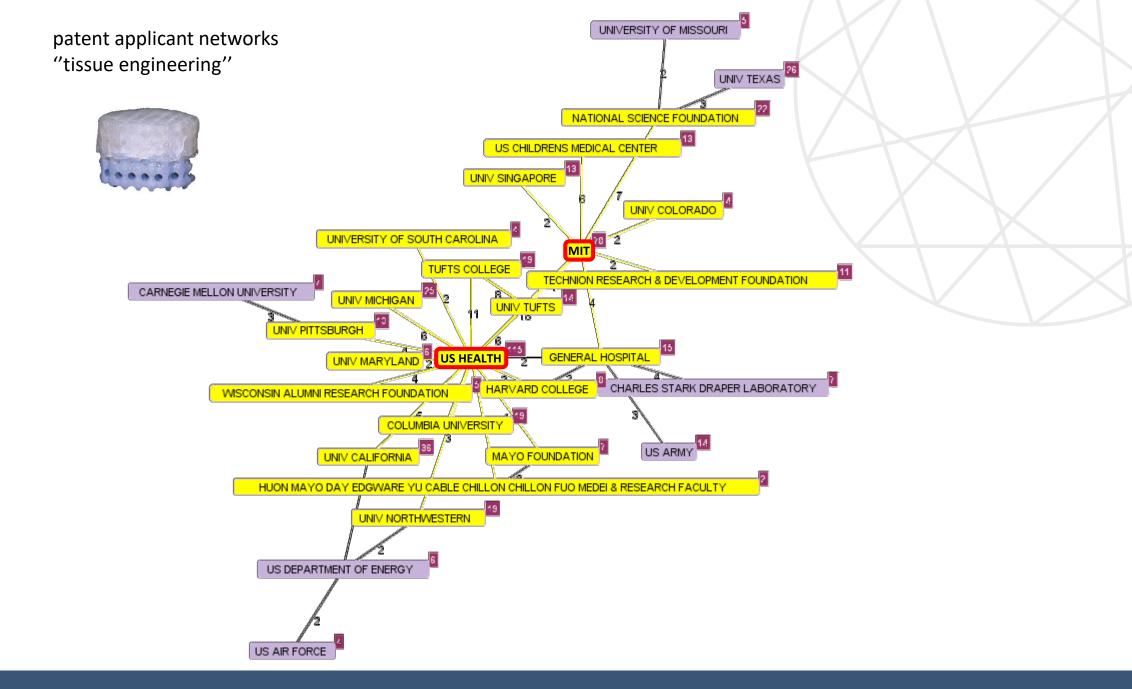




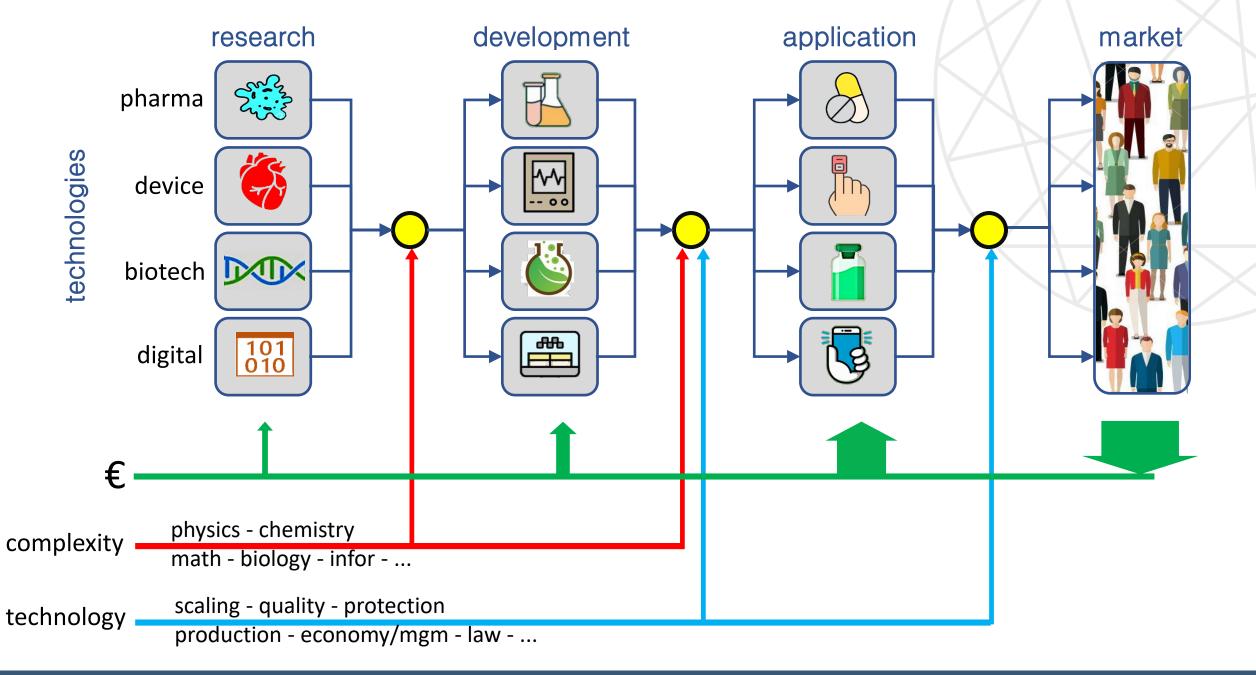
patent applicants



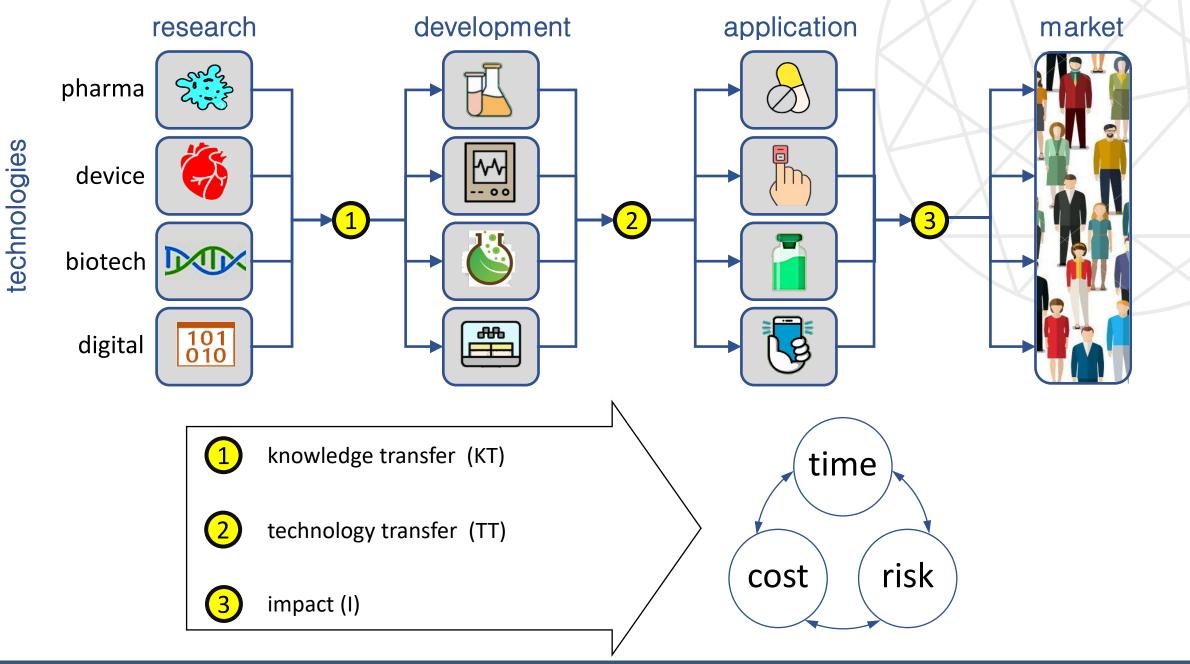






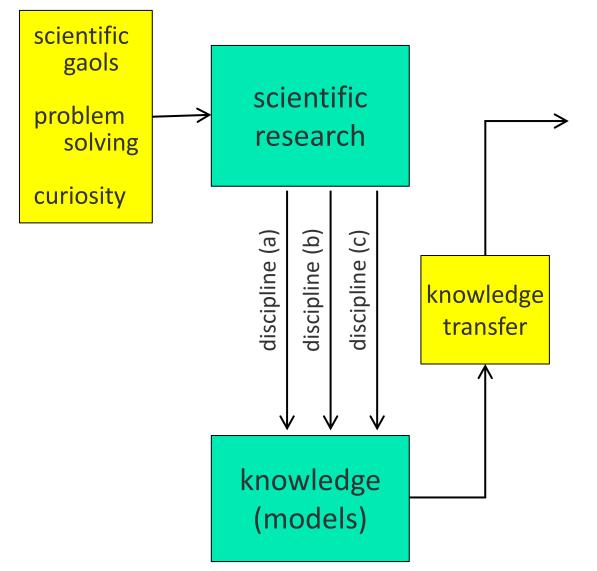








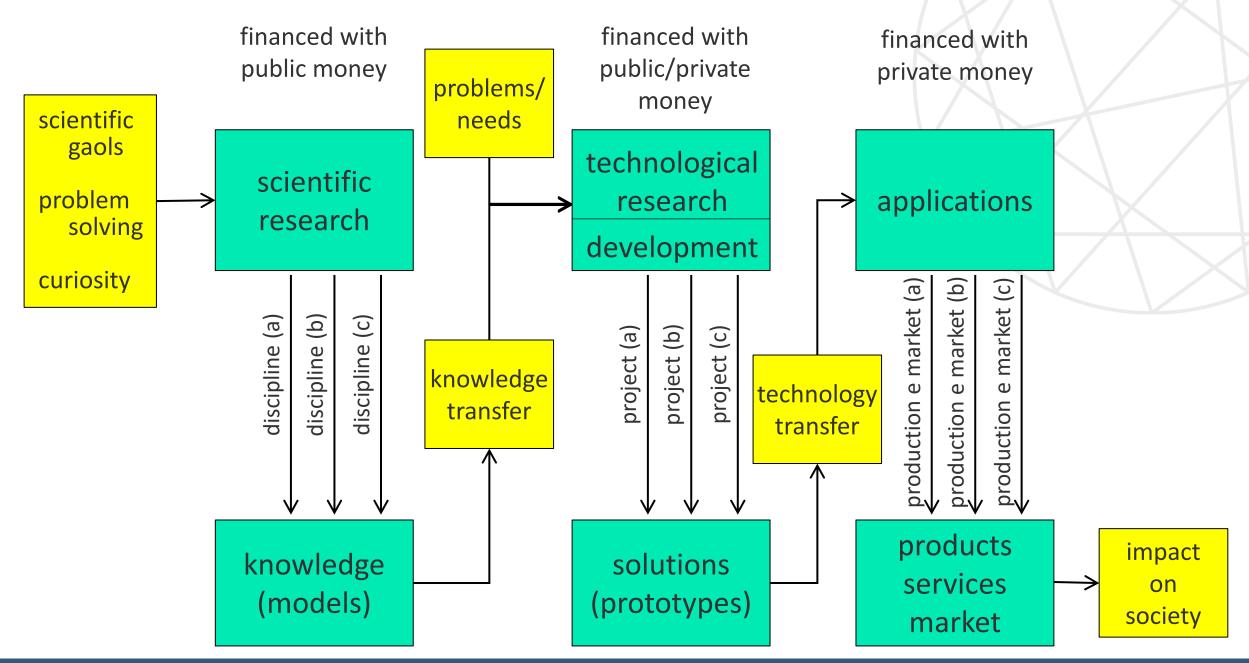
financed with public money



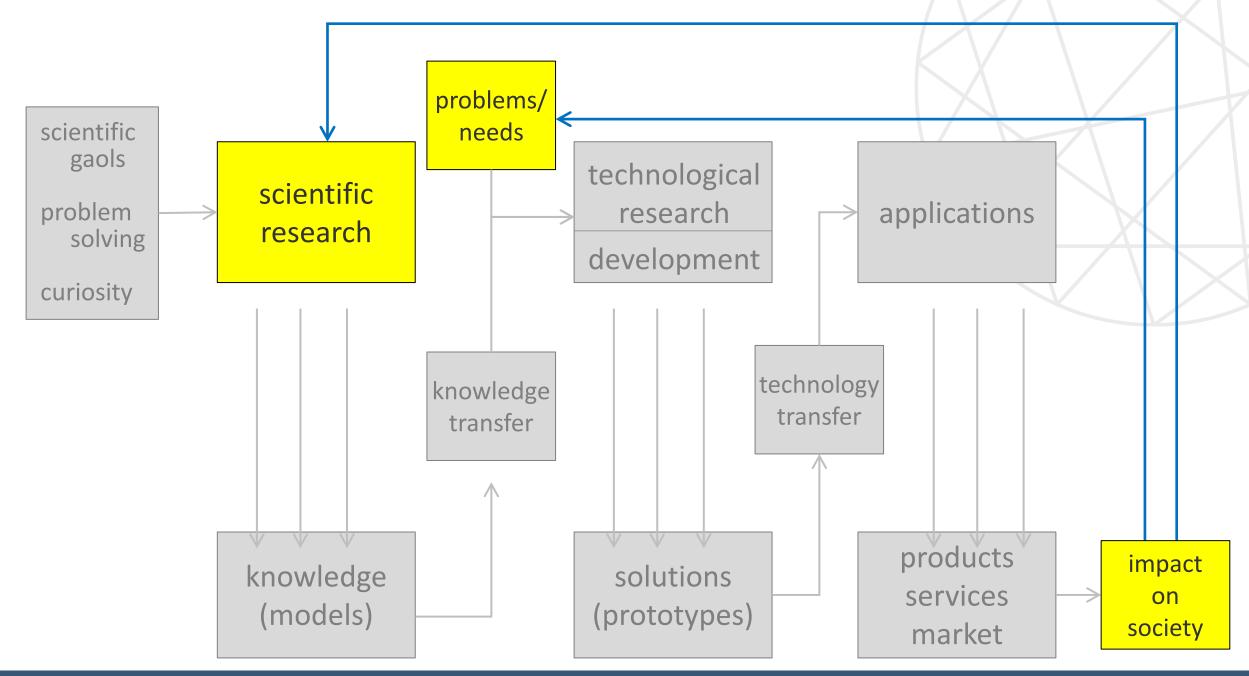
the scientific research is: independent disciplinary financed with public money

is the knew knowledge: useful? when? how?

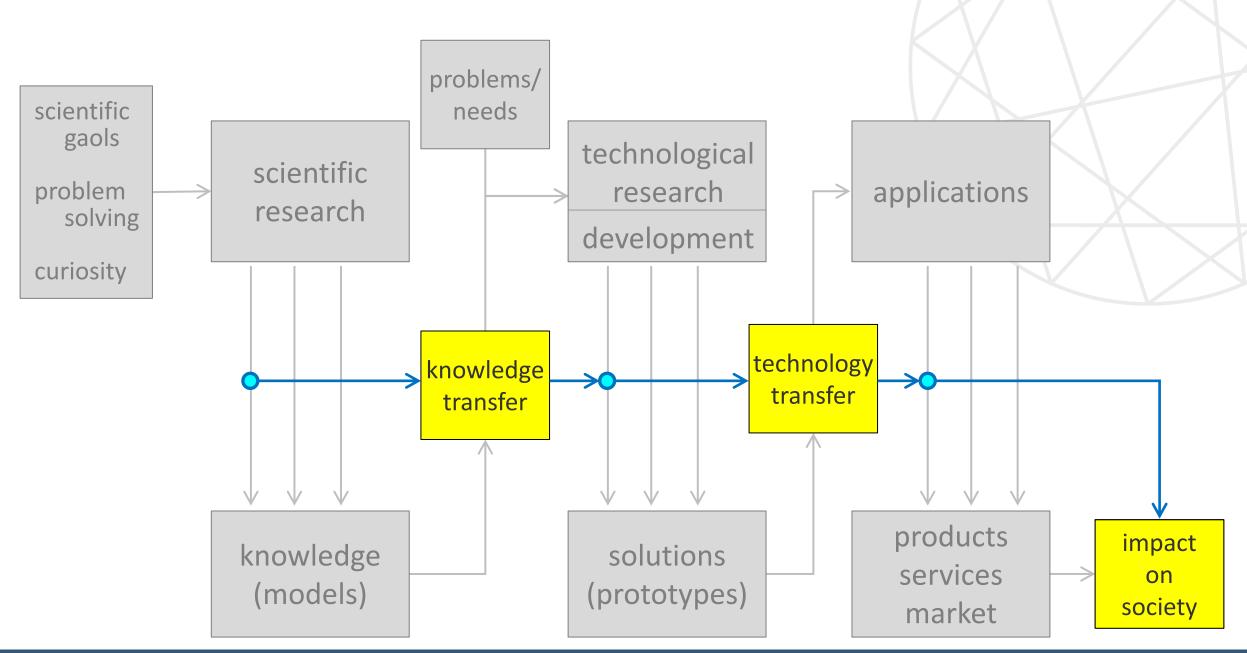




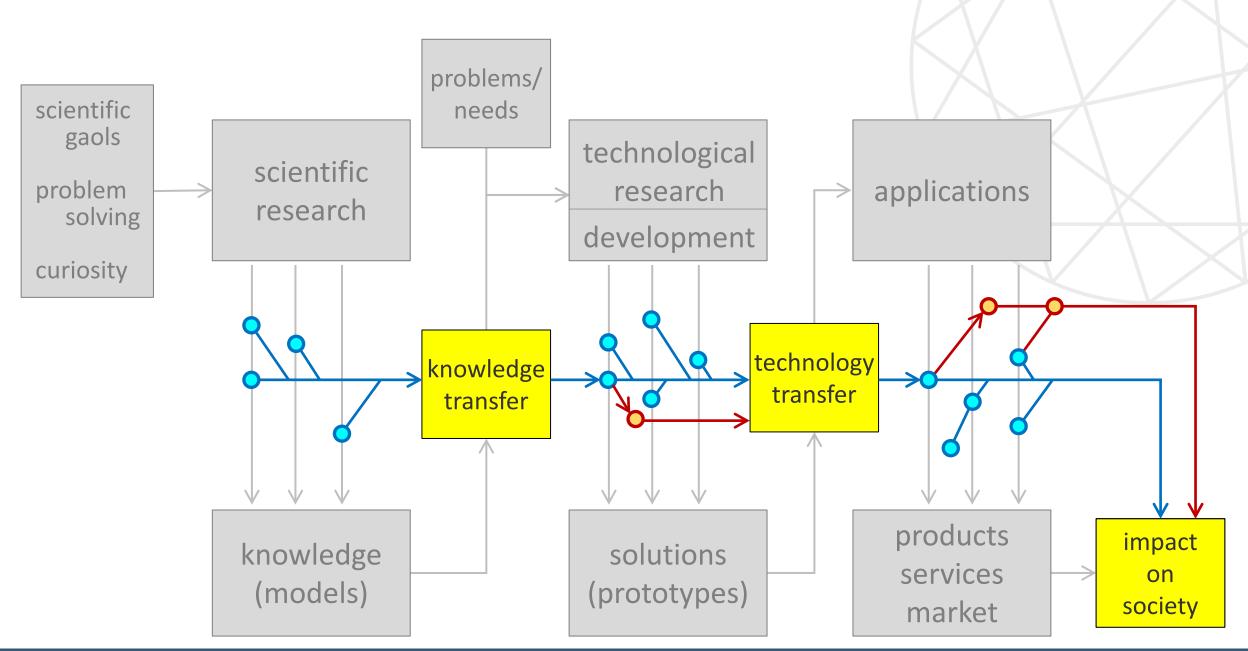




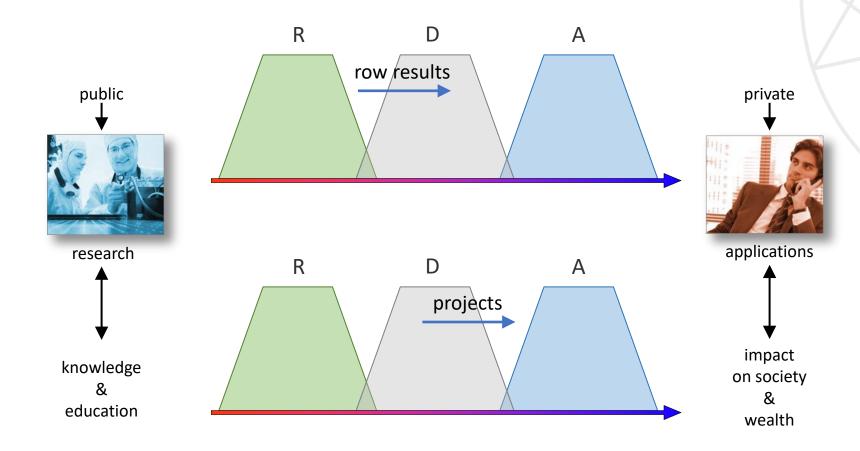




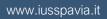














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