

From Invention to Innovation: the challenge of the Technology Transfer

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Creativity, invention and innovation are the key words to pursue technological progresses in our society. The invention is considered the materialization of ideas generated by the creativity that lead to new discoveries. However, the process that take innovative ideas from their inception to implementation is very complex involving several steps (Fig. 1) with multi actors and multi-competences from fabrication processes implementation and sustainability to market and regulation [1].

In the modern world, organizations are encouraged to support the process of invention and conversion to innovation. Several initiatives have been adopted either at European level (i.e. European Innovation Council (EIC) [2]) or national level (i.e. Proof -of Concept (POC) [3]) to push a process of technology transfer that targets to achieve prototypes that can be industrialized and sold starting from ideas demonstrated at lab level.

In this contribution, we describe the main features and requirements of a typical technology transfer applied to some specific case studies related to biochips technologies using 2D biolayers [4,5].

References

- [1] <https://www.mckinsey.com/capabilities/strategy-and-corporate-finance/our-insights/the-eight-essentials-of-innovation>
- [2] https://eic.ec.europa.eu/index_en
- [3] <https://www.mise.gov.it/index.php/it/incentivi/bando-valorizzazione-brevetti-poc>
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Figures

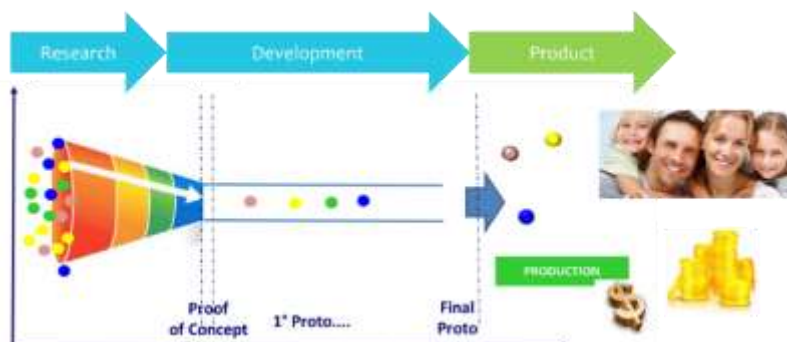


Figure 1: Scheme of process steps from Research to Innovation