

Strategies on technology transfer and patents commercialization for nanotechnology at the Spanish National Research Council

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The Spanish National Research Council (CSIC), an outstanding generator of scientific knowledge in Europe, has designed and implemented a series of actions in order to take advantage of the knowledge generated in nanotechnology by its research groups by mean of an appropriate transfer to both the Spanish and the international industry. CSIC's strategy has been particularly successful, both in the number of filed patents and in the number of licensed patents and created spin-off companies in the nanotechnology field. Our analysis shows that very successful results can be achieved in technology transfer when the appropriate resources are available and properly organized with an adequate combination of efforts in knowledge protection, promotion and commercialization of technologies and support to the scientific entrepreneurs of the institution.

References

- [1] Serena PA. The implementation of the Action Plan for Nanosciences and Nanotechnologies in Spain (2005-2007). E-Nano Newsletter 15 (1) (2009) 14-20.
- [2] Javier Maira, Javier Etxabe, Pedro A. Serena, Recent Patents on Nanotechnology 11 (2017), *in press*

Figures

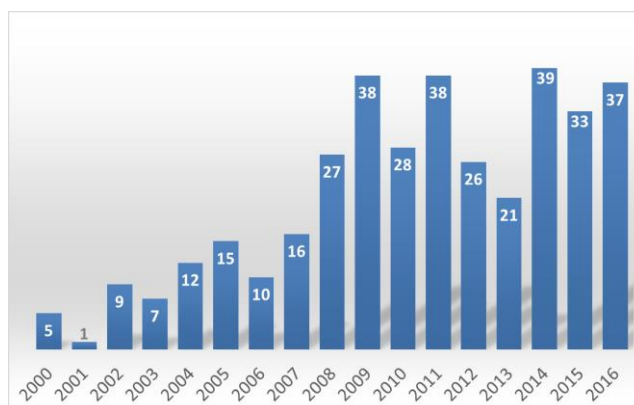


Figure 1: Number of CSIC's technologies protected by patent application or trade secrets in nanotechnology from 2000 to 2015

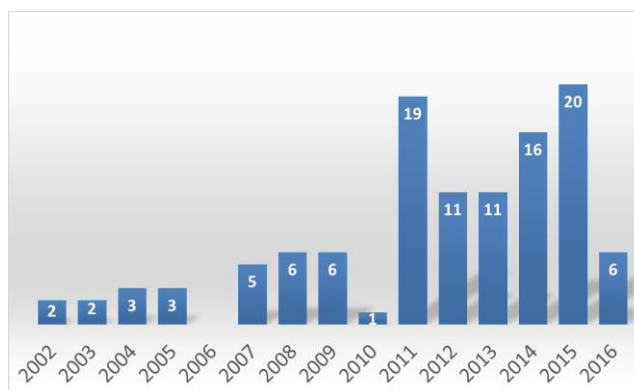


Figure 2: Evolution of the number of nanotechnologies protected by patent or trade secret licensed by CSIC over the period 2002-2015.