

Nanotechnologies: applications of interest for the Ministry of Defense

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One of the prime objectives of the Spanish MoD is to provide the Armed Forces with the best weapon systems and equipment required to complete their missions. For that reason, different Departments and Organizations of the MoD are devoted to managing and executing R&D programs and projects, together with the national technological and industrial base and in close collaboration with other national and international agencies (EDA, NATO, etc.)

Nanotechnology is an important enabling technology that has potential to contribute to enhance defence systems capabilities. It offers a promising future in many and very different areas due to the ability to obtain new materials

with better mechanical, chemical, electrical, etc. properties at macroscale.

The integration of nanotechnologies in defence systems means better and higher protection systems against enemy's weapons and against CBRN threats for our soldiers, more secure and lighter aerial, ground and naval platforms with better performance from an operational point of view, a more easier and cheaper control and maintenance of the equipment, smaller and more powerful devices and sensors, new systems for the generation and storage of electrical energy, etc. All these improvements are of great interest for the Ministry as stated in the Spanish Defence Technology and Innovation Strategy (ETID).