



Open call	CENIT 2010
Funding body	CDTI
Duration	2010-2013
Budget	€20,200,000
	
Partners	

PROJECT DESCRIPTION

Research into self-regeneration technologies through the development of repair agents that are subsequently incorporated into a variety of materials. Development and application of protocols using specific test methods to assess the materials' regenerative capacity, along with the selection of the most successful technologies, in order to apply them specifically to each industrial sector.

SCOPE OF TR'S WORK

Develop the technology behind industrial processes for exploiting strategic metals found in different types of waste.

Develop novel technologies through the treatment of certain forms of household or industrial waste containing metals considered to be strategic, such as rare earths, zinc, manganese and titanium.

Tackle the failures caused by corrosion phenomena in industrial plants, motor vehicles, transport and aviation.

Develop the necessary knowledge in order to take this metal material extracted from waste and insert it as a self-repairing material on current supports, coatings and paints used to treat surfaces such as steel or metal alloys, in order to tackle the damage caused by corrosion.

Generate self-repairing material based on these strategic metals.

Increase the added value of this waste-based extraction technology by generating a metal material with the potential to act as a self-repairing material.