

# PARTNER SEARCH NMP7-EU-SMCP-3

01 dicembre 2017

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ricerca partner di una multinazionale, interessata a partecipare al Settimo Programma Quadro, tema 4, NMP.

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<Reference n.: NMP7-EU-SMCP-3>

<Deadline: 22/02/2008>

<Programme: >

<Project Title: Hydrophobic/hydrophilic switching of surfaces using nano-structures >

<Financial Scheme: >

<Description: Approaches to control surface properties by building nano-structures on the surface will be investigated; the initial focus will be on the surface energy and mechanical properties. Other properties such as chemical resistance and corrosion resistance will also be examined. A major part of the project will be the development of mechanisms to switch the surface properties physically, for example by heat or radiation. These surfaces will be studied as potential new means for printing and imaging, with particular reference to scalability and reproducibility for manufacturing.

INNOVATIVE ASPECTS: Academic work has shown that nano-structured surfaces may have well controlled surface energy and that the energy may be switched by physical stimuli such as UV light. This work has not yet been able to show the feasibility of reducing the concept to practice in any industrial or commercial application, and design/structure/property relationships of these materials remain unclear.

### MAIN BENEFITS OF THE PROJECT:

This technology will enable the production of new printing media that

will not require chemical processing and chemical enhancement of the printing process. This will allow environmentally friendly processing and printing. The technology may allow reusable imaging material, which will dramatically reduce the use of raw materials in the industry.>

<Organisation Type: Impresa>

<Partner Sought: PROFILE OF PARTNERS SOUGHT:

Universities, research institutes or SMEs

Preparation and manipulation of different classes of suitable nano-structures, Analysis and modelling of nano-structures.

Development of switching chemistry mediated by physical stimuli.

<excerpt>