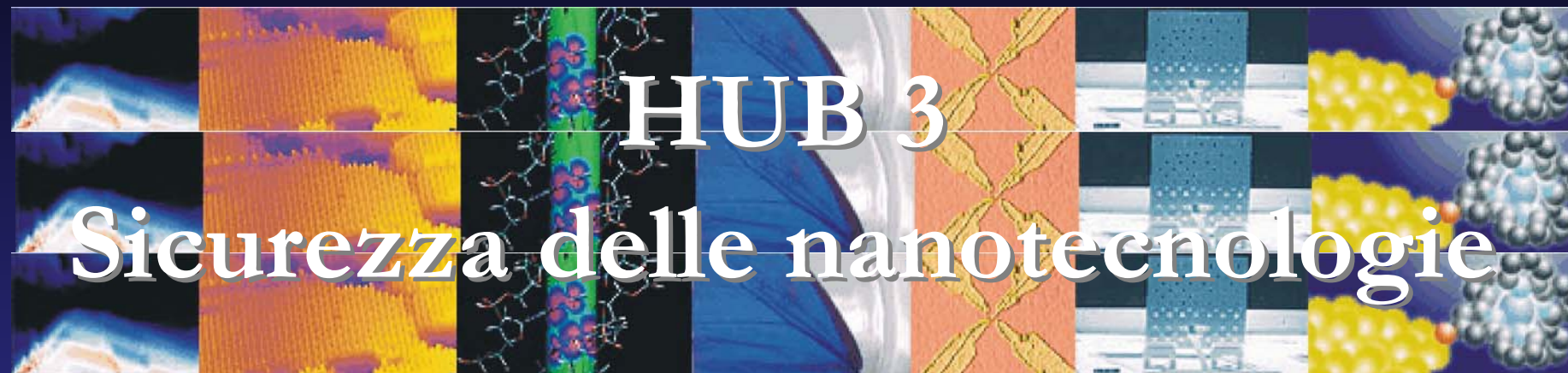


28 Febbraio 2006, BOLOGNA

Consiglio Nazionale delle Ricerche  
Istituto di Ricerche sulla Combustione - Napoli



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Dipartimento di Ingegneria Chimica e Alimentare

Università di Salerno

**PTISI**

**Cordinatori: Almerinda Di Benedetto, Paola Russo**

# *La strada verso il “piccolo”*

**Negli anni abbiamo assistito ad un grosso sviluppo delle nanotecnologie**

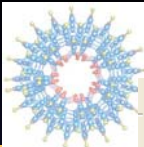
- ❖ Non si conoscono ancora i rischi associati all'uso di tali tecnologie
- ❖ Il potenziale rischio è connesso alla dimensione delle polveri (nano-metriche) e in particolare alla loro **attività catalitica** e alle loro **caratteristiche di esplosività**



**fino ad oggi Nano-tecnologie in una fase di  
ricerca**

**Needs per aspetti di sicurezza nascono per:**

- Passaggio dal laboratorio al processo
- Diffusione

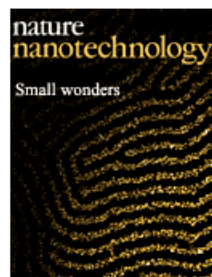


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## Introduction

Launching in October 2006, *Nature Nanotechnology* will publish high-quality original research from all areas of nanoscience and nanotechnology, including chemistry, physics, materials science, the life sciences and engineering. Every issue will also contain review articles, news and views, reports highlighting important papers published in other journals, commentary and analysis.

Articles for *Nature Nanotechnology* will be selected and edited to have the maximum appeal to the global nanoscience and nanotechnology community, and the journal will also encourage the exchange of ideas between physical scientists, life scientists, engineers and other researchers who are active at the frontiers of this diverse and multidisciplinary field. And like *Nature* itself, which will continue to publish top-quality papers on nanotechnology, *Nature Nanotechnology* will be committed to the highest editorial standards.

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Cover image: Self-assembled nanochains made of gold nanoparticles. This false-colour transmission electron micrograph was taken by Ward Lopes and Heinrich Jaeger at the University of Chicago.



# ETPIS- Nanosafety HUB 9

- Co-ordinator:
- Frédéric Schuster : [frederic.schuster@cea.fr](mailto:frederic.schuster@cea.fr)
- Chemical reactivity of nanoparticles
- Explosivity (detonation) of nanoparticles
- Initiating sources leading to reactivity and explosibility (i.e. thermal runaway,, electrostatics, mechanical sparking...)
- Life cycle risk analysis (from creation to disposal),
- Dispersion of nanoparticles in air, water, soils
- Toxicology and ecotoxicology (human, animal, vegetal)
- Epidemiology

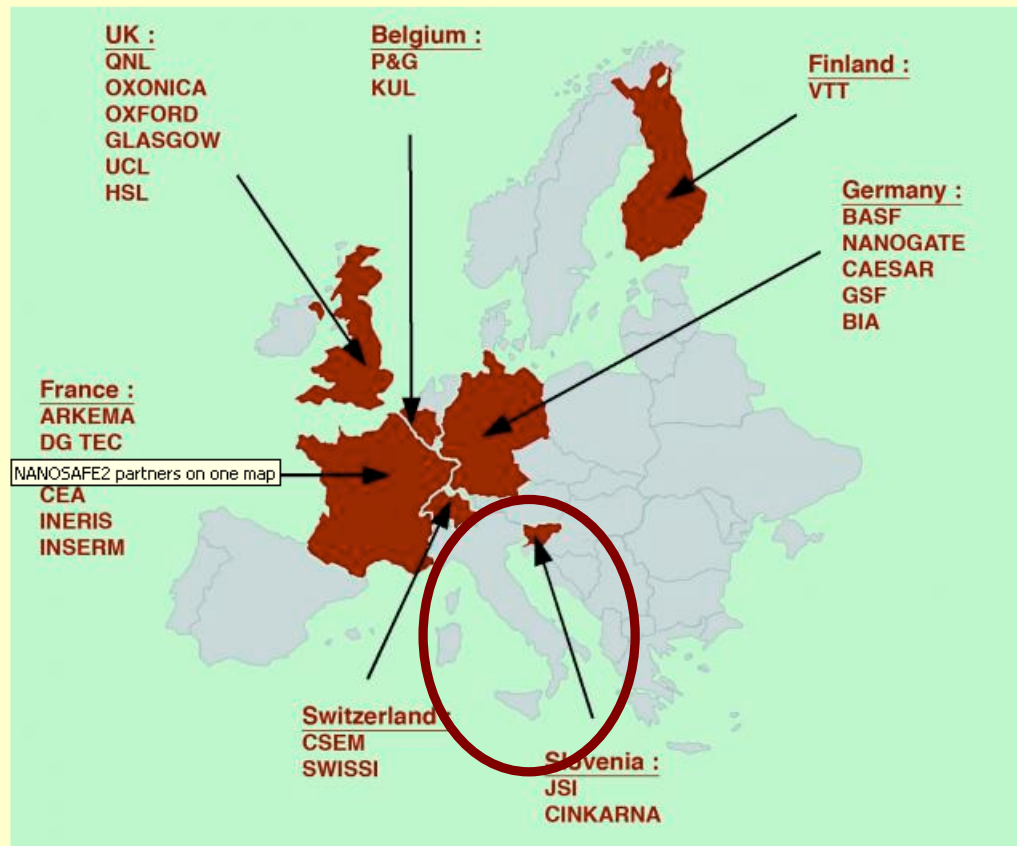


## ITALY?

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### NANOSAFE2 PARTNERS ON ONE MAP

Submitted by Admin on Sun, 15/05/2005 - 23:54. [Images](#)



Here is the map showing all our NANOSAFE2 project partners and where they come from. Below is the list of all of them.

#### About us

- ▣ [Project objectives](#)
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- ▾ [NANOSAFE2 partners on one map](#)
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- ▣ [CEA](#)
- ▣ [CSEM](#)
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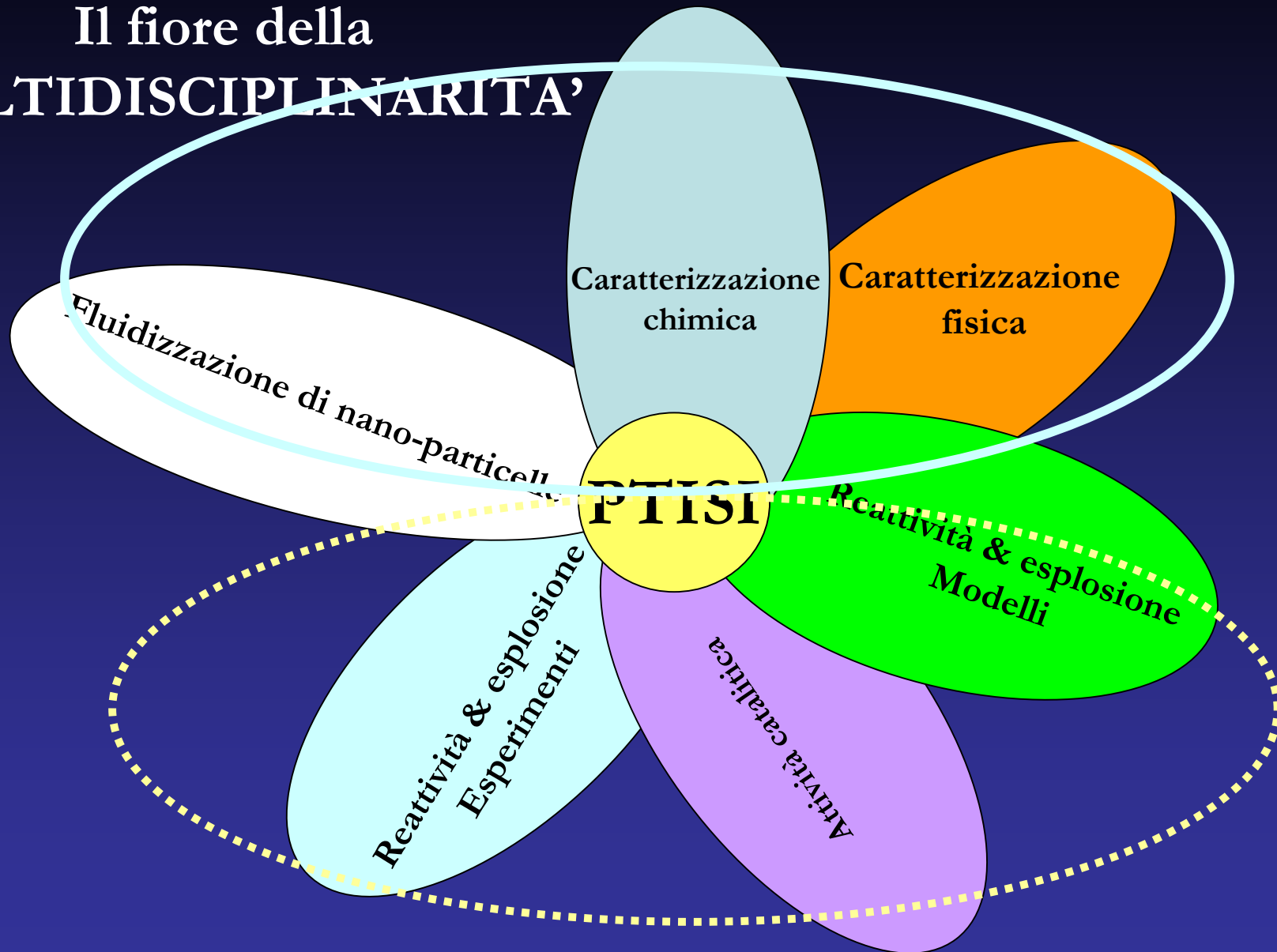
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# Strategia

Il fiore della  
**MULTIDISCIPLINARITA'**

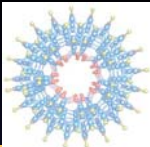




# Organizzazione

- ❖ **Sub-HUB 3.1**  
*Caratterizzazione fisica e fluidodinamica di nanoparticelle*
- ❖ **Sub-HUB 3.2**  
*Reattività & Esplosività di nanoparticelle*





<b>Nome</b>	<b>titolo</b>	<b>Competenze</b>
<i>Paolo Ciambelli</i>	<i>Full professor</i>	<i>Modellazione di esplosioni di polveri</i>
<i>Riccardo Chirone</i>	<i>Senior Researcher</i>	<i>Fluidizzazione di nanoparticelle</i>
<i>Almerinda Di Benedetto</i>	<i>Researcher</i>	<i>Modellazione di esplosioni di polveri</i>
<i>Luciana Lisi</i>	<i>Researcher</i>	<i>Attività catalitica</i>
<i>Patrizia Minutolo</i>	<i>Researcher</i>	<i>Caratterizzazione fisica di nanoparticelle, laser diagnostico</i>
<i>Paola Russo</i>	<i>Researcher</i>	<i>Modellazione di esplosioni di polveri</i>
<i>Ernesto Salzano</i>	<i>Researcher</i>	<i>Esperimenti di esplosività di nanoparticelle</i>
<i>Roberto Sanchirico</i>	<i>Researcher</i>	<i>Esperimenti di esplosività di nanoparticelle</i>



# Passi successivi

- Coinvolgere campo medico (?)
- Aziende (STMicroelectronics Italiana, DSM, P&G)
- Legislazione