



RRI of Nanotechnologies: The RinnovaReNano Project



Chairs: Flavia Barone (ISS) – Andrea Porcari (AIRI)

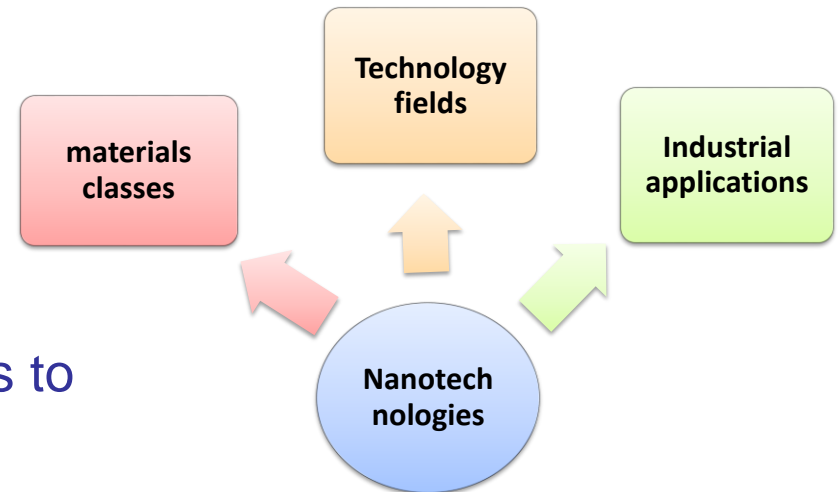
- **Alessandro ALIMONTI and Isabella DE ANGELIS, *Istituto Superiore di Sanità***
The RInnovaReNano project
- **Andrea ZIJNO, *Istituto Superiore di Sanità***
Methodological approaches for potential in vitro toxicity of manufactured nanomaterials relevant for chemicals and cosmetics
- **Giuseppe D'AVENIO, *Istituto Superiore di Sanità***
Safety and effectiveness of nanostructured medical devices
- **Stefano FAIS, *Istituto Superiore di Sanità***
New approach for assessing the potential toxicity of nanomaterials through the use of natural nanovesicles
- **Paolo ROAZZI, *Istituto Superiore di Sanità***
Integrated data platform on nanomaterials of the RInnovaReNano project

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Nanotechnologies

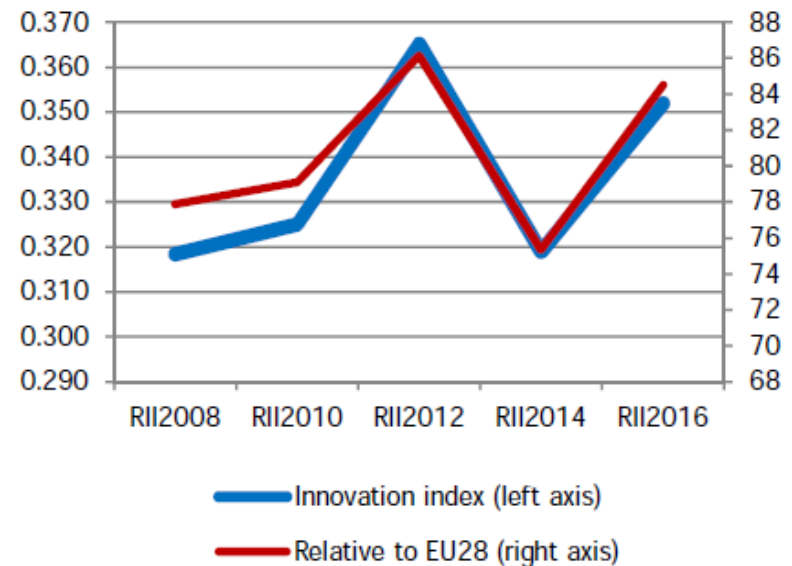
- Essential technology building blocks for industrial innovation
- Enabling character, there is no a nanotech industry
- Still limited maturity technology level
- Both technology and safety challenges to be addressed
- More 200 R&I players, around 50% private in Italy



The regional landscape on R&I

Lazio features:

- Moderate innovator, but performances increasing
- Gap in networking and tech transfer between public and private



Regional specialization in high tech areas, include:

- Aerospace
- Life Sciences
- Agrifood
- Green economy (*engineering & construction, energy*)

Pharma and related medical products → over 40% of the regional export

The added value of RinnovareNano for industry

- **Foster cooperation amongst public research, authorities, industry to tackle safety and normative challenges in nanotech**
- **Identifying the Go-Areas „license to innovate“, for a safe use of nanomaterials**
- **Exploit public and private partnership to access regional, national and EU funding**



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Providing guidance on regulation and risk assessment of NM

- Normative requirements
- Technical and scientific gaps (uncertainties)
- Protocols for risk assessment
- R&D challenges and opportunities
- Key initiatives at EU and national level

Facilitate public private partnerships

- Promote safety and public healthcare as a driver for research and innovation
- A platform open to contributions from the industrial community
- Favour an open innovation approach (in nanotech)

Comments & inputs for further design of the webplatform?



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Info & Contacts

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nanotec IT

A national web-platform for the responsible development of nanotech

CONTENTS & INFRASTRUCTURES

COMPETENCES
WITHIN ISTITUTO
SUPERIORE DI SANITA

REGULATION

STANDARD
OPERATING
PROCEDURES (SOP)

KEY RESOURCES
(articles, reports and
data)

KEY ELEMENTS

APPLICATION SECTORS
(chemicals, pharma, biomed
& cosmetics, agrifood)

NANOMATERIALS

TOPICS
(Handling, Characterization,
Dispersion, toxicology, etc.)

**NEXT SESSION THIS MORNING
ROOM 17**

**Safe Working with nanomaterials:
the NanoLab project, results
from a research laboratory case study**

