

EU: Identifying Technical Platforms for Collaboration

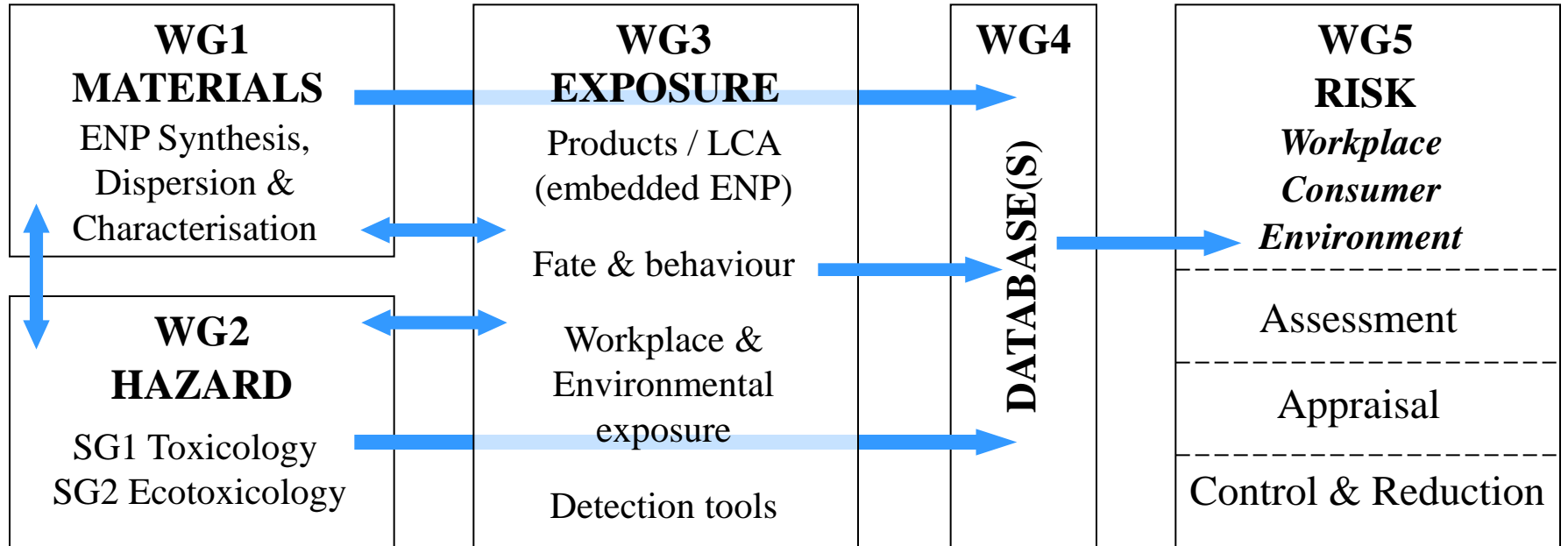


European Commission
Directorate-General for Research and Innovation
Georgios Katalagarianakis

The NMP Nanosafety Cluster

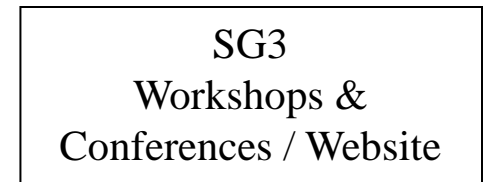
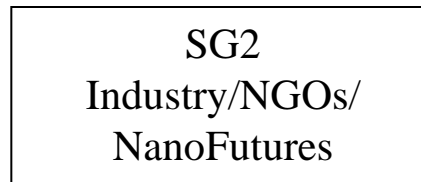
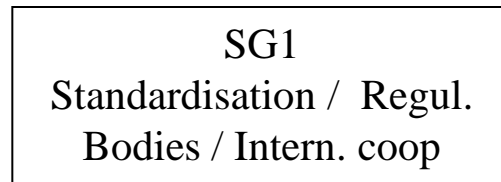
- **An initiative to maximise the synergies between projects addressing all aspects of nanosafety including toxicology, ecotoxicology, exposure assessment, mechanisms of interaction, risk assessment, LCA and standardisation.**
- **A projects and scientists forum**
- **About 30 EU and national projects**
- **Open to voluntary participation**
- **A projects compendium published; 2011 version available**
- **Integrating in the Technology Platform NanoFutures**

EU research NANOSAFETY



WG6 MODELLING

WG7 DISSEMINATION



Technology platforms - the concept

- **Scope:**
 - Areas where RTD plays a vital role in **addressing major economic, technological and societal challenges**
 - Potential for **sustainable competitiveness** of the EU
 - Increased and **more effective investment in RTD**
 - **Accelerate innovation** and
 - **Eliminate barriers** to the deployment and growth of new technologies
- **Partnership:**
 - **bring together all stakeholders** (research, industry, regulators, policy makers)
- **Objectives:**
 - Develop a **long term vision** for the deployment and growth of new technologies, including the downstream regulatory environment in which technologies are developed and marketed
 - Create a **coherent strategy and action plan** to deliver agreed programs of activities and optimise the benefits of all
 - Elaborate and follow-up a **strategic research agenda**



NANO*futures* as "Nano-Hub"

q Associations

q SMEs

q Industries

q Universities

q Scientists

q ...

q ObservatoryNANO

q ProNano

q NanoCom

q Nano2Market

q MINAM 2.0

q Nano-TV

q REGULATION

q NETWORKING

q COMMUNICATION

q STANDARDIZATION

q SAFETY RESEARCH

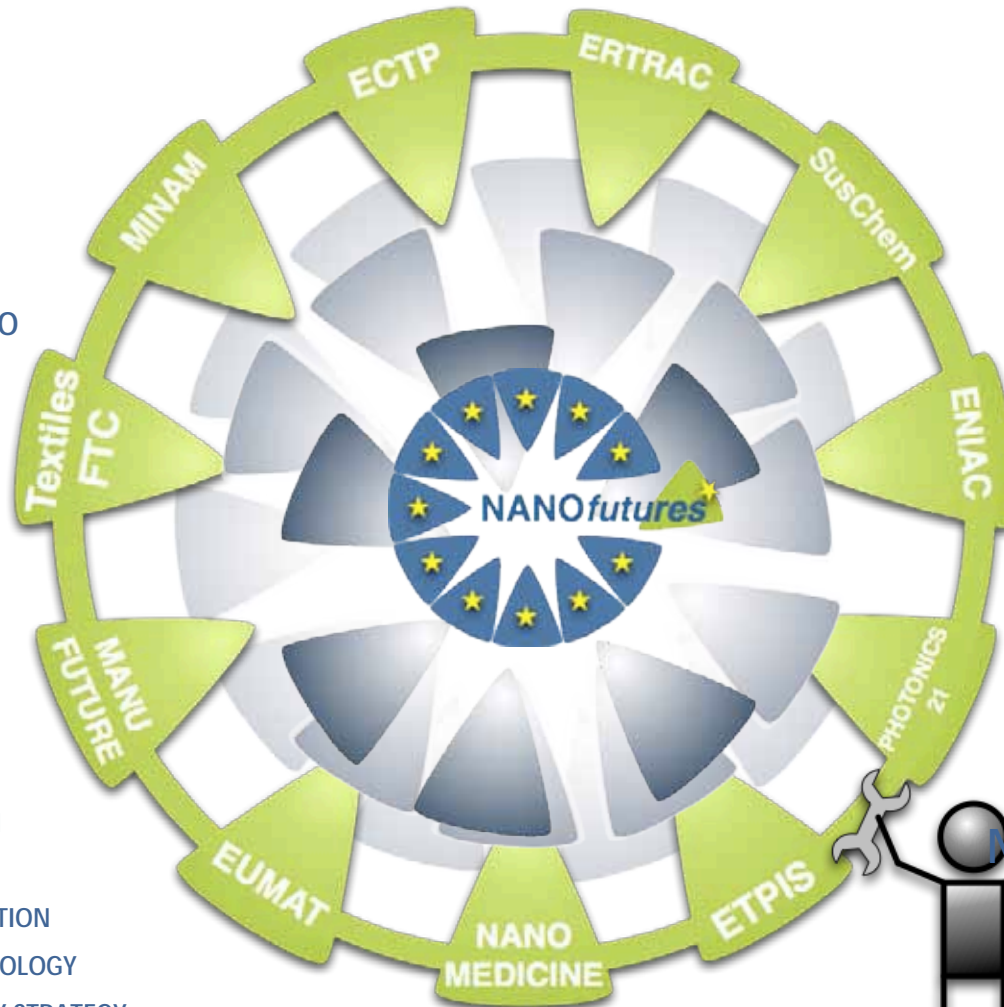
q SKILLS AND EDUCATION

q RESEARCH / TECHNOLOGY

q INDUSTRIAL SAFETY STRATEGY

q INDUSTRIALIZATION/ nano-MANUFACTURING

q TECH TRANSFER and INNOVATION FINANCING



NANO*futures* CSA



q *NANO* *future*s aim to address and contribute to EU and national policies in the area of nano-technologies



Materials and hazards

- Develop material characterisation methods
- Develop and validate methods to evaluate toxicity/ecotoxicity

Exposure and Monitoring

- Instruments for assessing exposure to nanomaterials in air and water (number, surface area, mass)
- Monitoring accidental hazards

Risk understanding / risk evaluation

- Acceptable/unacceptable risks, Costs/Benefits Analysis
- Exposure limits, control measures
- Impact evaluation over entire Life Cycle

Risk Communication

- Dialog and transparency
- Risk perception

Risk mitigation

- Proactive risk management
- Safe processes and safe handling

- Develop strategic programmes that enable risk-focussed research
- Safety management infrastructure and capacities
- Material data, Toxicity testing methods and data, Exposure measurements methods and data

Mechanisms of cooperation

SCOPE

- **Information: Two networks, communicating**
 - u Materials
 - u Hazard/exposure
 - u Risk management
- **Exchange of researchers/visits**
- **Scientific strategy & planning**
- **Cooperation extension towards:**
 - u Data management
 - u Standardisation
 - u Testing
 - u Exposure

STAKEHOLDERS

- EU and USA provide the platform based on their Science and Technology cooperation agreement
- Projects on voluntary basis

MEANS

- Meetings: One per year?
- Organisation of working groups on specific issues?
- Facilitation of joint actions?
- Databases?



Information on Nanotechnology in EC

Commission Nanotechnologies homepage

<http://cordis.europa.eu/nanotechnology/>

http://ec.europa.eu/nanotechnology/index_en.html