



SUN

Project

SUN is a three and a half year EU project that runs from 2013 to 2017. With a total budget of about €14 million, SUN is among the highest funded projects of the EU FP7 research programme.

Consortium

SUN brings together 35 partners from 12 EU countries, including 4 large industrial companies and 9 small & medium enterprises, 22 universities and research centres.

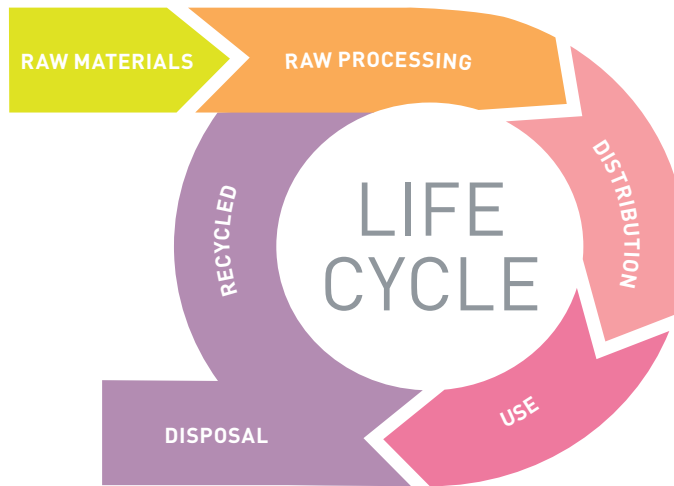


SUN

Concept

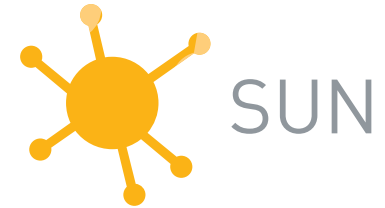
Our understanding of the environmental and health risks from nanotechnologies is still limited, which may result in overbalancing regulations and demolished consumer confidence, causing stagnation of innovation and economic growth.

SUN is based on the concept that the current knowledge of environmental and health risks from nanomaterials – while limited – can nevertheless guide nanomanufacturing to avoid future liabilities if an integrated approach addressing the entire product lifecycle is applied.



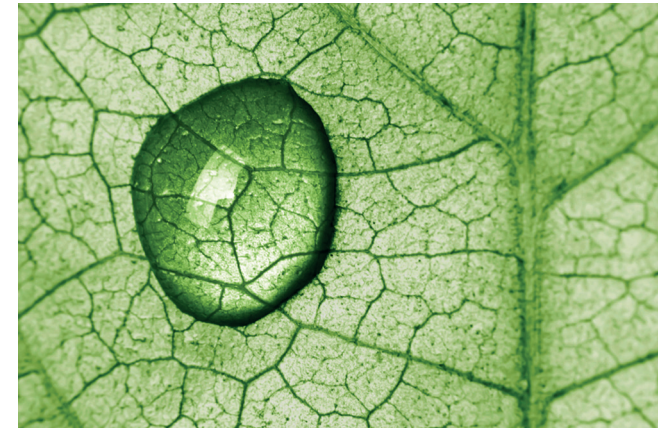
Contact us:

info@sun-fp7.eu | www.sun-fp7.eu



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Sustainable Nanotechnologies Project



Main Goal

The main goal of SUN is to evaluate the risks along the supply chains of engineered nanomaterials and incorporate the results into tools and guidelines for sustainable nanomanufacturing.



This project is funded by the EU 7th Framework Programme, contract no. 604305



Specific Objectives

SUN will incorporate scientific findings from over 30 European projects and international research programmes to develop:

- Methods to predict human and environmental exposure, effects and risks from nanomaterials.
- Tools to support industrial and regulatory decisions regarding safer manufacturing, handling and disposal of nanomaterials.
- Technological solutions for risk management in industrial, consumer and environmental settings.

RISK ASSESSMENT

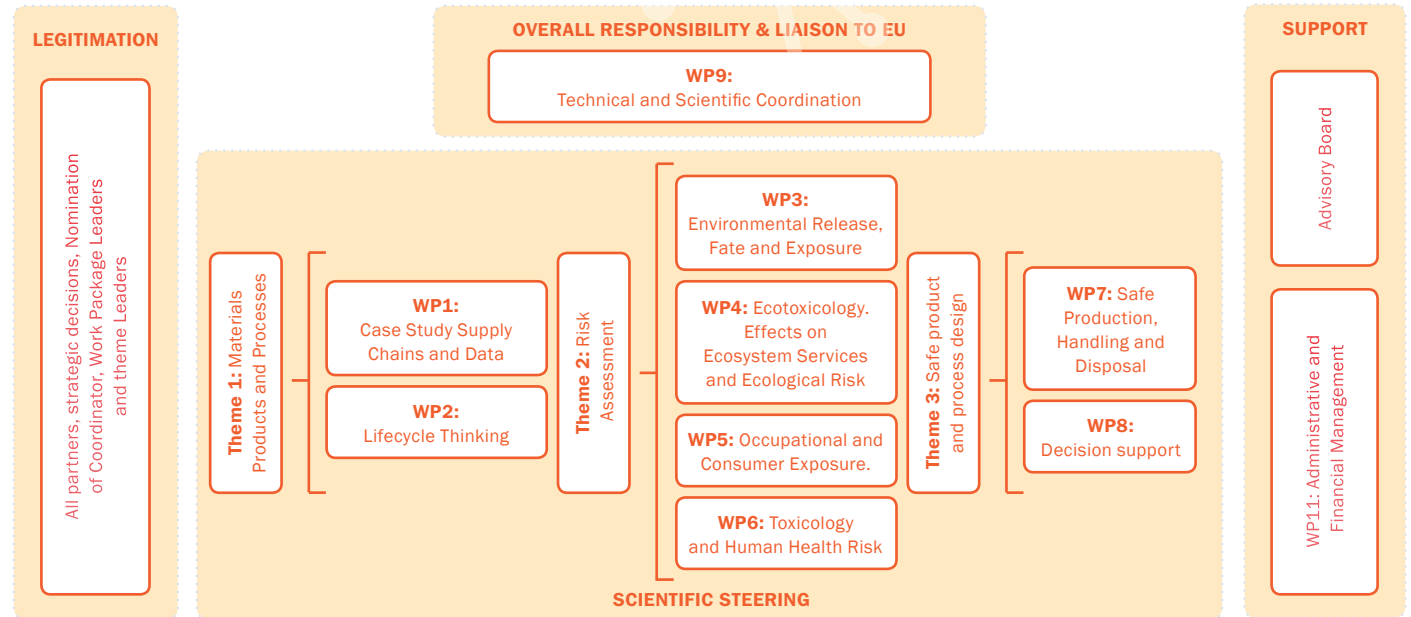
- *Predicting nanomaterial exposure and effects on humans and ecosystems.*

DECISION SUPPORT

- *Integrating the know-how developed in the project to support industry, regulators and the insurance sector to make informed decisions about nanotechnology.*

RISK MANAGEMENT

- *Designing process changes and technological solutions to reduce hazard and exposure to nanomaterials.*



Structure

Work packages (WPs) 1 and 2 are both the start and end points of SUN: Real products and processes throughout all stages of the lifecycle set the stage for the activities in WPs 3-6. The outcomes, both direct feedback from WPs 3-6 and the results of WP7 and WP8, feed into the current practice of the industry partners.

Specifically, WPs 3-6 will produce data on physico-chemical characteristics, hazard, exposure, risk and environmental impact of nanomaterials in a number of 'real-life' case studies.

WP7 will develop practices, methods and tools to facilitate safe production, handling and disposal of nanomaterials and incorporate them into case-specific guidelines for safe

product and process design. Finally, the knowledge and tools produced in WPs 1-7 will be integrated into the SUN Decision Support System in WP8.

