NanoReg2

The Project

One of the greatest challenges in the changing nanomaterial landscape is how to deal with a rapidly diversifying system of manufactured nanomaterials (MNM) with respect to environmental and health safety assessments. NanoReg2 will meet this challenge by establishing Safe by Design (SbD) as a fundamental pillar in the discovery, screening and commercialisation of novel nanomaterials and nano enabled products. In addition the project will achieve this by establishing a grouping strategy and an associated integrated testing strategy to support grouping. The project will be supported through industrial case studies, that will implement a safe innovation approach.

Our Objectives

1. Identify and define regulatory requirements, build safe-orientated grouping approaches linked with integrated testing strategies
2. Evaluate the relative change in environmental and human health risk, following implementation of the Safe by Design process
3. Develop and adapt supportive technical and organizational tools for Safe by Design, based on regulatory orientated grouping approaches
4. Identify and overcome barriers to the application of Safe by Design
5. Perform industrial case studies to verify and test Safe by Design and grouping approaches
6. Disseminate Safe by Design and grouping tools

Our Impact

On Industry: Safer products, fewer uncertainties, more cost-effective innovation

On Researchers: Strengthening the research, development and innovation process through the Safe by Design concept

On Regulators: Better preparation for new innovations in MNMs and related products

On Society: Transparent and traceable information on the safety of nanomaterials and related products

Our Partners

42 organisations across more than 15 countries working together for 3 years to create principles that will underpin the next generation of regulation

This project has received €10M in funding from the European Union's Horizon 2020 research and innovation programme under grant agreement 646221

Safe by Design

The Safe by Design concept aims at reducing potential health and environmental risks at an early phase of the innovation process. Such concept aims at creating an integrated research strategy. This enables the consideration of safety aspects for humans and the environment in the design process of a product/material, to eliminate or minimise the risk of adverse effects during its life cycle including construction, use, maintenance and deconstruction. Within the Safe by Design concept the functionality of a nanomaterial and its toxicity/safety are therefore considered in an integrated way. Such an approach maximises resource use and expedites the development of products containing nanomaterials and new nanomaterials that are safer by design.

How can Safe by Design benefit you?

Reduce Time Required for R&D

More Cost-Effective Innovation

Faster to Market

Prepare for Future Regulatory Challenges

Safer Products

Better Consumer Acceptance

Built on a three pillar foundation

Safe Products ↔ ***Safe Use*** ↔ ***Safe Production***

Contact us to learn more about Safe by Design
and how you can become involved in its development

NanoReg2

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